

AU.SampleReceipt.Sydney (Sydney)

From: Daniel Deen [Daniel_Deen@coffey.com]
Sent: Monday, 1 March 2010 4:54 PM
To: AU.SampleReceipt.Sydney (Sydney)
Subject: RE: EW00250AB, SGS SE76250

Emily

These are ASS samples that were not dispatched to SGS please disregard

DANIEL DEEN
Environmental Scientist

Coffey Environments
118 Auburn Street Wollongong NSW 2500 Australia
T +61 2 4201 1400 F +61 2 4201 1401 M +61 407 243 663
coffey.com



From: Colee Quayle
Sent: Monday, 1 March 2010 4:27 PM
To: Daniel Deen
Subject: FW: EW00250AB, SGS SE76250

Sorry Dan would you please sort this out

Regards

COLEE QUAYLE
Senior Environmental Scientist

Coffey Environments
118 Auburn Street Wollongong NSW 2500 Australia
T +61 2 4201 1400 F +61 2 4201 1401 M +61 403 242 431
coffey.com



From: AU.SampleReceipt.Sydney (Sydney) [mailto:AU.SampleReceipt.Sydney@sgs.com]
Sent: Monday, 1 March 2010 4:23 PM
To: Colee Quayle
Subject: RE: EW00250AB, SGS SE76250

These three samples don't have "NI" on them. See page 8 and 9 of ten of COC.

Kind Regards
Emily Yin
Environmental Services
Sample Administration Officer

SGS Australia Pty Ltd
Unit 16, 33 Maddox St
Alexandria, NSW, 2015

1/03/2010

Phone: +61 (0)2 8594 0400
Fax: +61 (0)2 8594 0499
E-mail: au.samplereceipt.sydney@sgs.com
Web: www.au.sgs.com

From: Colee Quayle [mailto:Colee_Quayle@coffey.com]
Sent: Monday, 1 March 2010 4:18 PM
To: AU.SampleReceipt.Sydney (Sydney)
Subject: RE: EW00250AB, SGS SE76250

Emily

Please the COC, these samples should have "NI" written beside them which means they are not included as per instructions on COC. Thank.

Regards

COLEE QUAYLE
Senior Environmental Scientist

Coffey Environments
118 Auburn Street Wollongong NSW 2500 Australia
T +61 2 4201 1400 F +61 2 4201 1401 M +61 403 242 431
coffey.com



From: AU.SampleReceipt.Sydney (Sydney) [<mailto:AU.SampleReceipt.Sydney@sgs.com>]
Sent: Monday, 1 March 2010 3:36 PM
To: Colee Quayle; Chris Appelkamp
Subject: EW00250AB, SGS SE76250

Hello,

CTP45/1.60m-1.70m – bag not received. CTP44A/00m-0.10m-ASS-bag and CTP44B/0.0-0.1m-ASS-bag not received.

Kind Regards
Emily Yin
Environmental Services
Sample Administration Officer

SGS Australia Pty Ltd
Unit 16, 33 Maddox St
Alexandria, NSW, 2015
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1/03/2010

AU.SampleReceipt.Sydney (Sydney)

From: Daniel Deen [Daniel_Deen@coffey.com]
Sent: Tuesday, 2 March 2010 4:13 PM
To: AU.SampleReceipt.Sydney (Sydney)
Subject: RE: EW00250AB, SGS SE76250

Hi Emily

CTP71/0.0-0.1m – Please do asbestos analysis and not PCB
CTP38/0.0-0.1m – Please do asbestos analysis and not PCB

My eyeballs need a check-up by the looks of it. With so many pages of COC, human error was about to occur now and again. Thanks for picking it up.

Regards

DANIEL DEEN
Environmental Scientist

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coffey.com



From: AU.SampleReceipt.Sydney (Sydney) [mailto:AU.SampleReceipt.Sydney@sgs.com]
Sent: Tuesday, 2 March 2010 2:30 PM
To: Colee Quayle
Subject: RE: EW00250AB, SGS SE76250

Thanks.

For sample CTP71/0.0-0.1m (Bag-zip), do you want PCB or asbestos analysed. Page 2 of COC.
Also, CTP38/0.0-0.10m on page 9 of COC.
Please clarify as soon as possible. Thank You.

Kind Regards
Emily Yin
Environmental Services
Sample Administration Officer

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Unit 16, 33 Maddox St
Alexandria, NSW, 2015
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E-mail: au.samplereceipt.sydney@sgs.com
Web: www.au.sgs.com

From: Colee Quayle [mailto:Colee_Quayle@coffey.com]
Sent: Tuesday, 2 March 2010 1:52 PM
To: AU.SampleReceipt.Sydney (Sydney)
Subject: RE: EW00250AB, SGS SE76250

2/03/2010

As, Cd, Cr, Cu, Ni, Pb, Zn, Hg

Regards

COLEE QUAYLE
Senior Environmental Scientist

Coffey Environments
118 Auburn Street Wollongong NSW 2500 Australia
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coffey.com



From: AU.SampleReceipt.Sydney (Sydney) [mailto:AU.SampleReceipt.Sydney@sgs.com]
Sent: Tuesday, 2 March 2010 1:47 PM
To: Colee Quayle
Subject: EW00250AB, SGS SE76250

Please list metals required. Thanks.

Kind Regards
Emily Yin
Environmental Services
Sample Administration Officer

SGS Australia Pty Ltd
Unit 16, 33 Maddox St
Alexandria, NSW, 2015
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2/03/2010

ANALYTICAL REPORT

9 March 2010

Coffey Environments Pty Ltd

118 Auburn Street
Wollongong
NSW 2500

Attention: Colee Quayle

Your Reference: ENVIWOLL00250AB

Our Reference: SE76295

Samples: 36 Soils

Received: 2/3/10

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:

SGS ENVIRONMENTAL SERVICES

Client Services: Simon Matthews

Simon.Matthews@sgs.com

Sample Receipt: Angela Mamalicos

AU.SampleReceipt.Sydney@sgs.com

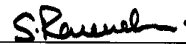
Laboratory Manager: Edward Ibrahim

Edward.Ibrahim@sgs.com

Results Approved and/or Authorised by:



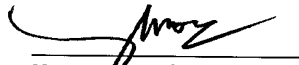
Edward Ibrahim
Laboratory Manager



Ravee Sivasubramaniam
Asbestos Signatory



Ly Kim Ha
Organics Signatory



Huong Crawford
Metals Signatory



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Page 1 of 17

BTEX in Soil			
Our Reference:	UNITS	SE76295-4	SE76295-2
Your Reference	-----	CTP84/1.25	5
Sample Matrix	-----	-1.35	CTP86A/0.0
Date Sampled		Soil	-0.05
		26/02/2010	Soil
			26/02/2010
Date Extracted (BTEX)		4/03/2010	4/03/2010
Date Analysed (BTEX)		4/03/2010	4/03/2010
Benzene	mg/kg	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3
BTEX Surrogate (%)	%	116	117



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TRH in soil with..C6-C9 by P/T Our Reference:	UNITS	SE76295-4	SE76295-2 5
Your Reference	-----	CTP84/1.25 -1.35	CTP86A/0.0 -0.05
Sample Matrix Date Sampled	-----	Soil 26/02/2010	Soil 26/02/2010
Date Extracted (TRH C6-C9 PT)		4/03/2010	4/03/2010
Date Analysed (TRH C6-C9 PT)		4/03/2010	4/03/2010
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20
Date Extracted (TRH C10-C36)		4/03/2010	4/03/2010
Date Analysed (TRH C10-C36)		4/03/2010	4/03/2010
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50
TRH C ₂₉ - C ₃₆	mg/kg	<50	72



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PAHs in Soil Our Reference:	UNITS	SE76295-4	SE76295-1 4	SE76295-2 2	SE76295-2 8	SE76295-3 6
Your Reference	-----	CTP84/1.25 -1.35	CTP76/0.55 -0.65	CTP85/1.35 -1.45	CTP86/0.0- 0.1	DJD28
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		26/02/2010	26/02/2010	26/02/2010	26/02/2010	26/02/2010
Date Extracted		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	<0.10	<0.10	0.19	<0.10
Anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	<0.10	<0.10	0.20	<0.10
Pyrene	mg/kg	<0.10	<0.10	<0.10	0.17	<0.10
Benzo[a]anthracene	mg/kg	<0.10	<0.10	<0.10	0.11	<0.10
Chrysene	mg/kg	<0.10	<0.10	<0.10	0.12	<0.10
Benzo[b,k]fluoranthene	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo[a]pyrene	mg/kg	<0.05	<0.05	<0.05	0.10	0.06
Indeno[123-cd]pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[ghi]perylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Total PAHs (sum)	mg/kg	<1.7	<1.7	<1.7	<2.09	<1.76
Nitrobenzene-d5	%	81	83	83	92	83
2-Fluorobiphenyl	%	73	75	77	84	76
<i>p</i> -Terphenyl-d14	%	85	86	89	94	86



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OC Pesticides in Soil Our Reference:	UNITS	SE76295-1	SE76295-1 4	SE76295-2 2	SE76295-2 8	SE76295-3 6
Your Reference	-----	CTP84/0.0- 0.1	CTP76/0.55 -0.65	CTP85/1.35 -1.45	CTP86/0.0- 0.1	DJD28
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		26/02/2010	26/02/2010	26/02/2010	26/02/2010	26/02/2010
Date Extracted		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>delta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	88	82	86	86	86



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PCBs in Soil Our Reference:	UNITS	SE76295-1	SE76295-1 4	SE76295-2 2	SE76295-2 8	SE76295-3 6
Your Reference	-----	CTP84/0.0- 0.1	CTP76/0.55 -0.65	CTP85/1.35 -1.45	CTP86/0.0- 0.1	DJD28
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		26/02/2010	26/02/2010	26/02/2010	26/02/2010	26/02/2010
Date Extracted		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Date Analysed		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	88	82	86	86	86



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Metals in Soil by ICP-OES Our Reference:	UNITS	SE76295-1	SE76295-1 4	SE76295-2 2	SE76295-2 8	SE76295-3 6
Your Reference	-----	CTP84/0.0- 0.1	CTP76/0.55 -0.65	CTP85/1.35 -1.45	CTP86/0.0- 0.1	DJD28
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		26/02/2010	26/02/2010	26/02/2010	26/02/2010	26/02/2010
Date Extracted (Metals)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Date Analysed (Metals)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Arsenic	mg/kg	4	<3	4	8	<3
Cadmium	mg/kg	0.4	<0.3	<0.3	0.4	<0.3
Chromium	mg/kg	11	7.0	10	19	11
Copper	mg/kg	45	12	7.6	6.6	11
Lead	mg/kg	25	7	13	15	11
Nickel	mg/kg	14	1.5	2.9	3.5	4.2
Zinc	mg/kg	69	13	17	26	37



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Mercury Cold Vapor/Hg Analyser						
Our Reference:	UNITS	SE76295-1	SE76295-1 4	SE76295-2 2	SE76295-2 8	SE76295-3 6
Your Reference	-----	CTP84/0.0- 0.1	CTP76/0.55 -0.65	CTP85/1.35 -1.45	CTP86/0.0- 0.1	DJD28
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		26/02/2010	26/02/2010	26/02/2010	26/02/2010	26/02/2010
Date Extracted (Mercury)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Date Analysed (Mercury)		8/03/2010	8/03/2010	8/03/2010	8/03/2010	8/03/2010
Mercury	mg/kg	0.83	<0.05	<0.05	<0.05	<0.05



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Asbestos ID in soil					
Our Reference:	UNITS	SE76295-1	SE76295-1 4	SE76295-2 2	SE76295-2 8
Your Reference	-----	CTP84/0.0- 0.1	CTP76/0.55 -0.65	CTP85/1.35 -1.45	CTP86/0.0- 0.1
Sample Matrix	-----	Soil	Soil	Soil	Soil
Date Sampled		26/02/2010	26/02/2010	26/02/2010	26/02/2010
Date Analysed		8/03/2010	8/03/2010	8/03/2010	8/03/2010
Sample Description		19g soil	38g clay	38g soil	39g soil
Asbestos ID in soil	-	No asbestos detected Organic fibres detected*	No asbestos detected	No asbestos detected Synthetic Mineral Fibres detected*	No asbestos detected



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WORLD RECOGNISED
ACCREDITATION

SGS Australia Pty Ltd
ABN 44 000 964 278

Page 9 of 17

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499
www.au.sgs.com

Moisture						
Our Reference:	UNITS	SE76295-1	SE76295-4	SE76295-1 4	SE76295-2 2	SE76295-2 5
Your Reference	-----	CTP84/0.0- 0.1	CTP84/1.25 -1.35	CTP76/0.55 -0.65	CTP85/1.35 -1.45	CTP86A/0.0 -0.05
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		26/02/2010	26/02/2010	26/02/2010	26/02/2010	26/02/2010
Date Analysed (moisture)		4/03/2010	4/03/2010	4/03/2010	4/03/2010	4/03/2010
Moisture	%	14	18	15	20	11

Moisture			
Our Reference:	UNITS	SE76295-2 8	SE76295-3 6
Your Reference	-----	CTP86/0.0- 0.1	DJD28
Sample Matrix	-----	Soil	Soil
Date Sampled		26/02/2010	26/02/2010
Date Analysed (moisture)		4/03/2010	4/03/2010
Moisture	%	18	19



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Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEO-005	OC/OP/PCB - Determination of a suite of Organochlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
AN602	Analysed using in house method AN602 - Qualitative identification of Asbestos Fibres, Synthetic Mineral Fibres and Organic Fibres in bulk samples (including building materials and soils) using Polarised Light Microscopy and Dispersion Staining Techniques. Our NATA Accreditation does not currently cover the identification of Synthetic Mineral Fibres and Organic Fibres, however, according to new NATA requirements, the reporting of these fibres is compulsory if detected.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C.



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
BTEX in Soil								
Date Extracted (BTEX)				4/03/20 10	[NT]	[NT]	LCS	4/03/2010
Date Analysed (BTEX)				4/03/20 10	[NT]	[NT]	LCS	4/03/2010
Benzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	66%
Toluene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	73%
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	75%
Total Xylenes	mg/kg	0.3	SEO-018	<0.3	[NT]	[NT]	LCS	85%
BTEX Surrogate (%)	%	0	SEO-018	85	[NT]	[NT]	LCS	92%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH in soil with..C6-C9 by P/T								
Date Extracted (TRH C6-C9 PT)				4/03/20 10	[NT]	[NT]	LCS	4/03/2010
Date Analysed (TRH C6-C9 PT)				4/03/20 10	[NT]	[NT]	LCS	4/03/2010
TRH C ₆ - C ₉ P&T	mg/kg	20	SEO-018	<20	[NT]	[NT]	LCS	88%
Date Extracted (TRH C10-C36)				4/03/20 10	[NT]	[NT]	LCS	4/03/2010
Date Analysed (TRH C10-C36)				4/03/20 10	[NT]	[NT]	LCS	4/03/2010
TRH C ₁₀ - C ₁₄	mg/kg	20	SEO-020	<20	[NT]	[NT]	LCS	85%
TRH C ₁₅ - C ₂₈	mg/kg	50	SEO-020	<50	[NT]	[NT]	LCS	79%
TRH C ₂₉ - C ₃₆	mg/kg	50	SEO-020	<50	[NT]	[NT]	LCS	72%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PAHs in Soil								
Date Extracted				4/03/2010	SE76295-14	4/03/2010 4/03/2010	LCS	4/03/2010
Date Analysed				4/03/2010	SE76295-14	4/03/2010 4/03/2010	LCS	4/03/2010
Naphthalene	mg/kg	0.1	SEO-030	<0.10	SE76295-14	<0.10 <0.10	LCS	101%
2-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE76295-14	<0.10 <0.10	[NR]	[NR]
1-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE76295-14	<0.10 <0.10	[NR]	[NR]
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	SE76295-14	<0.10 <0.10	LCS	97%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	SE76295-14	<0.10 <0.10	LCS	117%
Fluorene	mg/kg	0.1	SEO-030	<0.10	SE76295-14	<0.10 <0.10	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	SE76295-14	<0.10 <0.10	LCS	103%
Anthracene	mg/kg	0.1	SEO-030	<0.10	SE76295-14	<0.10 <0.10	LCS	108%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE76295-14	<0.10 <0.10	LCS	104%
Pyrene	mg/kg	0.1	SEO-030	<0.10	SE76295-14	<0.10 <0.10	LCS	107%
Benzo[a]anthracene	mg/kg	0.1	SEO-030	<0.10	SE76295-14	<0.10 <0.10	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	SE76295-14	<0.10 <0.10	[NR]	[NR]
Benzo[b,k]fluoranthene	mg/kg	0.2	SEO-030	<0.20	SE76295-14	<0.20 <0.20	[NR]	[NR]
Benzo[a]pyrene	mg/kg	0.05	SEO-030	<0.05	SE76295-14	<0.05 <0.05	LCS	99%
Indeno[123-cd]pyrene	mg/kg	0.1	SEO-030	<0.10	SE76295-14	<0.10 <0.10	[NR]	[NR]
Dibenzo[ah]anthracene	mg/kg	0.1	SEO-030	<0.10	SE76295-14	<0.10 <0.10	[NR]	[NR]
Benzo[ghi]perylene	mg/kg	0.1	SEO-030	<0.10	SE76295-14	<0.10 <0.10	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.75	SEO-030	<1.7	SE76295-14	<1.7 <1.7	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	73	SE76295-14	83 84 RPD: 1	LCS	84%
2-Fluorobiphenyl	%	0	SEO-030	72	SE76295-14	75 77 RPD: 3	LCS	81%
p -Terphenyl-d14	%	0	SEO-030	80	SE76295-14	86 90 RPD: 5	LCS	92%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OC Pesticides in Soil								
Date Extracted				4/03/2010	[NT]	[NT]	LCS	4/03/2010
Date Analysed				4/03/2010	[NT]	[NT]	LCS	4/03/2010
HCB	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>alpha</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
gamma-BHC (Lindane)	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Heptachlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	127%
Aldrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	118%
<i>beta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>delta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	119%
Heptachlor Epoxide	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>o,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>alpha</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>trans</i> -Chlordane	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>cis</i> -Chlordane	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>trans</i> -Nonachlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Dieldrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	125%
Endrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	123%
<i>o,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>o,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>beta</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	121%
Endosulfan Sulphate	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Methoxychlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Ketone	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	0	SEO-005	99	[NT]	[NT]	LCS	107%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PCBs in Soil								
Date Extracted				4/03/2010	[NT]	[NT]	LCS	4/03/2010
Date Analysed				4/03/2010	[NT]	[NT]	LCS	4/03/2010
Arochlor 1016	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1260	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	91%
Arochlor 1262	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1268	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Total Positive PCB	mg/kg	0.9	SEO-005	<0.90	[NT]	[NT]	[NR]	[NR]
PCB_Surrogate 1	%	0	SEO-005	99	[NT]	[NT]	LCS	101%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Metals in Soil by ICP-OES								
Date Extracted (Metals)				8/03/2010	[NT]	[NT]	LCS	8/03/2010
Date Analysed (Metals)				8/03/2010	[NT]	[NT]	LCS	8/03/2010
Arsenic	mg/kg	3	SEM-010	<3	[NT]	[NT]	LCS	94%
Cadmium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	97%
Chromium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	98%
Copper	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	97%
Lead	mg/kg	1	SEM-010	<1	[NT]	[NT]	LCS	95%
Nickel	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	97%
Zinc	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	97%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Mercury Cold Vapor/Hg Analyser								
Date Extracted (Mercury)				8/03/2010	[NT]	[NT]	LCS	08/03/10
Date Analysed (Mercury)				8/03/2010	[NT]	[NT]	LCS	08/03/10
Mercury	mg/kg	0.05	SEM-005	<0.05	[NT]	[NT]	LCS	114%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Asbestos ID in soil				
Date Analysed				[NT]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Hold sample- NO test required				
Sample on HOLD		[NT]		[NT]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Moisture				
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1



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Result Codes

[INS] : Insufficient Sample for this test	[RPD] : Relative Percentage Difference
[NR] : Not Requested	* : Not part of NATA Accreditation
[NT] : Not tested	[N/A] : Not Applicable

Report Comments

Sampled by the client

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy.

This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

No respirable fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)

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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>



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Client Details

Requested By : **Colee Quayle**
 Client : Coffey Environments Pty Ltd
 Contact : Colee Quayle
 Address : 118 Auburn Street
 Wollongong NSW 2500

Email : Colee_Quayle@coffey.com
 Telephone : 02 4201 1400
 Facsimile : 02 4201 1401

Project : ENVIWOLL00250AB
 Order Number : 28572-4
 Samples : 36 Soils

Laboratory Details

Laboratory : SGS Environmental Services
 Manager : Edward Ibrahim
 Address : Unit 16, 33 Maddox Street
 Alexandria NSW 2015

Email : au.samplereceipt.sydney@sgs.com
 Telephone : 61 2 8594 0400
 Facsimile : 61 2 8594 0499

Report No : **SE76295**
 No. of Samples : 36
 Due Date : 9/03/2010

Date Instructions Received : 1/03/2010
 Sample Receipt Date : 2/3/10

Samples received in good order	: YES	Samples received in correct container:	YES
Samples received without headspace	: YES	Sufficient quantity supplied	: YES
Upon receipt sample temperature	: Cool	Cooling Method	: Ice
Sample containers provided by	: SGS	Samples clearly Labelled	: YES
Turnaround time requested	: Standard	Completed documentation received	: YES

Samples will be held for 1 month for water samples and 3 months for soil samples from date of receipt of samples, unless otherwise instructed.

Comments

For CTP15 and CTP78 samples refer SGS Ref:
 SE76228

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.

The signed chain of custody will be returned to you with the original report.

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76295

Summary of Samples and Requested Analysis

The table below represents SGS Environmental Service's understanding and interpretation of the customer supplied sample request.

Please indicate ASAP if your request differs from these details.

Testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

Note that a small X in the table below indicates some testing has not been requested in the package.

Sample No.	Description	Metals Prep. soil 8 HM	BTEX in Soil	TRH in soil with .C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Hold sample-NO test required	Moisture
1	CTP84/0.0-0.1	X				X	X	X	X	X		X
2	CTP84/0.5-0.6										X	
3	CTP84/0.85-0.95										X	
4	CTP84/1.25-1.35		X	X	X							X
5	CTP84/2.0-2.1										X	
6	CTP84/2.35-2.45										X	
7	CTP84/2.8-2.9										X	
8	CTP84/3.65-3.75										X	
9	CTP84/3.1-3.2										X	
10	CTP84/4.35-4.45										X	
11	CTP84/4.75-4.85										X	
12	CTP76/0.0-0.05										X	
13	CTP76/0.2-0.3										X	
14	CTP76/0.55-0.65	X			X	X	X	X	X	X		X
15	CTP76/1.15-1.25										X	
16	CTP76/1.7-1.8										X	
17	CTP76/2.6-2.7										X	
18	CTP76/3.5-3.6										X	

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE76295

Sample No.	Description	Metals Prep. soil 8 HM	BTEX in Soil	TRH in soil with..C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Hold sample-NO test required	Moisture
19	CTP76/4.6-4.7										X	
20	CTP85/0.0-0.2										X	
21	CTP85/0.9-1.0										X	
22	CTP85/1.35-1.45	X			X	X	X	X	X	X		X
23	CTP85/1.75-1.85										X	
24	CTP85/2.65-2.75										X	
25	CTP86A/0.0-0.05		X	X								X
26	CTP86B/0.0-0.05										X	
27	CTP86C/0.0-0.05										X	
28	CTP86/0.0-0.1	X			X	X	X	X	X	X		X
29	CTP86/0.4-0.5										X	
30	CTP86/1.0-1.1										X	
31	CTP86/1.9-2.0										X	
32	CTP86/2.25-2.35										X	
33	DJD24										X	
34	DJD25										X	
35	DJD26										X	
36	DJD28	X			X	X	X	X	X			X



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
Project : ENVIWOLL00250AB

Report No : SE76295

Sample No.	Description
1	CTP84/0.0-0.1
2	CTP84/0.5-0.6
3	CTP84/0.85-0.95
4	CTP84/1.25-1.35
5	CTP84/2.0-2.1
6	CTP84/2.35-2.45
7	CTP84/2.8-2.9
8	CTP84/3.65-3.75
9	CTP84/3.1-3.2
10	CTP84/4.35-4.45
11	CTP84/4.75-4.85
12	CTP76/0.0-0.05
13	CTP76/0.2-0.3
14	CTP76/0.55-0.65
15	CTP76/1.15-1.25
16	CTP76/1.7-1.8
17	CTP76/2.6-2.7
18	CTP76/3.5-3.6
19	CTP76/4.6-4.7
20	CTP85/0.0-0.2
21	CTP85/0.9-1.0
22	CTP85/1.35-1.45
23	CTP85/1.75-1.85
24	CTP85/2.65-2.75
25	CTP86A/0.0-0.05
26	CTP86B/0.0-0.05
27	CTP86C/0.0-0.05
28	CTP86/0.0-0.1
29	CTP86/0.4-0.5



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
Project : ENVIWOLL00250AB

Report No : SE76295

Sample No.	Description
30	CTP86/1.0-1.1
31	CTP86/1.9-2.0
32	CTP86/2.25-2.35
33	DJD24
34	DJD25
35	DJD26
36	DJD28



Chain of Custody

Laboratory Quotation / Order No:

Job No: ENV201102504 Sheet 2 of 3

No: 28573

Dispatch to:
(Address &
Phone No.)

SGS
16133 Madder Street
Alexandra NSW

Sampled by:

David Deen

Consigning Officer:

MOLONGONG

Attention:

Sample Receipt

Project Manager:
(report results to)

Celia Orville

Courier Service:

Mt Bevan

Consignment Note No:

3159441

Relinquished by:

D. Deen

Date:

1/3/10

Time:

16:50

Received by:

Benny Lee

Date:

2/3

Time:

12:30

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required						Sample Condition on Receipt			
					PAHs	TPHs	MAHs = BTEX	Metals:	BTEX/PH	OC		PCB	Asbestos	
	Soil	Class jar + capped bag	CP76/00-005*	26/2/10	/	/	/	/	/	/	/	/	/	Hold
			12	19.2-0.3	/	/	/	/	/	/	/	/	/	/
			14	0.55-0.65	/	/	/	/	/	/	/	/	/	/
			15	1.15-1.25*	/	/	/	/	/	/	/	/	/	/
			16	1.7-1.8	/	/	/	/	/	/	/	/	/	/
			17	2.6-2.7	/	/	/	/	/	/	/	/	/	/
			18	5.5-3.6	/	/	/	/	/	/	/	/	/	/
			19	4.6-4.7	/	/	/	/	/	/	/	/	/	/
			20	0.0-0.2	/	/	/	/	/	/	/	/	/	/
			21	0.9-1.0	/	/	/	/	/	/	/	/	/	/
			22	1.35-1.45	/	/	/	/	/	/	/	/	/	/
			23	1.75-1.85	/	/	/	/	/	/	/	/	/	/
			24	2.65-2.75	/	/	/	/	/	/	/	/	/	/
			25	SS086A/00-005	/	/	/	/	/	/	/	/	/	/
			26	SS086B/00-005	/	/	/	/	/	/	/	/	/	/
			27	SS086C/00-005	/	/	/	/	/	/	/	/	/	/

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

Copies: WHITE: Sign on release. YELLOW: If dispatched to Interstate Lab. Lab to sign on receipt and fax back to Coffey. BLUE: To be returned with results.

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

AU.SampleReceipt.Sydney (Sydney)

From: Daniel Deen [Daniel_Deen@coffey.com]
Sent: Monday, 1 March 2010 5:03 PM
To: AU.SampleReceipt.Sydney (Sydney)
Subject: FW: ENVIWOLL0250AB, SGS SE76228
Attachments: Scanned COC part 2.pdf

Hi Emily

The following additional samples not included on the original COC have added to the COC 28572 (attached):

CTP15/1.0-1.1
 CTP15/3.0-3.1
 CTP78/FIBRO1
 CTP78/FIBRO1-SOIL
 CTP78/FIBRO2
 CTP78/FIBRO2-SOIL

CTP15/4.0-4.1 – Please disregard, no sample at that depth collected
 CTP17/3.0-3.1 – Please disregard, no sample at that depth collected
 CTP22/1.65-1.75 – This is the sample interpreted as CTP23/1.65-1.75. It should be CTP22/1.65-1.75
 SSD2/0.0-0.05 – This is sample SSD79/0.0-0.05
 SSD3/0.0-0.05 – This is sample SSD80/0.0-0.05
 CTP75/3.8-3.9 – This is the sample interpreted at CTP35/3.8-3.9

The other samples listed on COC28572-28574 are being dispatched tomorrow morning.

DANIEL DEEN
 Environmental Scientist

Coffey Environments
 118 Auburn Street Wollongong NSW 2500 Australia
 T +61 2 4201 1400 F +61 2 4201 1401 M +61 407 243 663
 coffey.com



From: AU.SampleReceipt.Sydney (Sydney) [mailto:AU.SampleReceipt.Sydney@sgs.com]
Sent: Monday, 1 March 2010 10:46 AM
To: Colee Quayle; Daniel Deen
Subject: ENVIWOLL0250AB, SGS SE76228

Hello,

CTP15/4.0-4.1, CTP17/3.0-3.1 and CTP22/1.65-1.75 jars and bags not received.
 CTP75/3.8-3.9 and CTP6/0.4-0.5 bag not received.
 Extra samples received on the bottom of COC 28570.
 Please forward analysis as soon as possible. Thank You.

Kind Regards
 Emily Yin
Environmental Services
 Sample Administration Officer

SGS Australia Pty Ltd
 Unit 16, 33 Maddox St
 Alexandria, NSW, 2015
 Phone: +61 (0)2 8594 0400

1/03/2010

AU.SampleReceipt.Sydney (Sydney)

From: Colee Quayle [Colee_Quayle@coffey.com]
Sent: Tuesday, 2 March 2010 1:33 PM
To: AU.SampleReceipt.Sydney (Sydney); Daniel Deen
Subject: RE: ENVIWOLL00250AB, SGS SE76228

As, Cd, Cr, Cu, Ni, Pb, Zn, Hg

Regards

COLEE QUAYLE
Senior Environmental Scientist

Coffey Environments
118 Auburn Street Wollongong NSW 2500 Australia
T +61 2 4201 1400 F +61 2 4201 1401 M +61 403 242 431
coffey.com



From: AU.SampleReceipt.Sydney (Sydney) [mailto:AU.SampleReceipt.Sydney@sgs.com]
Sent: Tuesday, 2 March 2010 1:10 PM
To: Colee Quayle; Daniel Deen
Subject: ENVIWOLL00250AB, SGS SE76228

Please list metals required. Thanks.

Kind Regards
Emily Yin
Environmental Services
Sample Administration Officer

SGS Australia Pty Ltd
Unit 16, 33 Maddox St
Alexandria, NSW, 2015
Phone: +61 (0)2 8594 0400
Fax: +61 (0)2 8594 0499
E-mail: au.samplereceipt.sydney@sgs.com
Web: www.au.sgs.com

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2/03/2010

ANALYTICAL REPORT

18 March 2010

Coffey Environments Pty Ltd

118 Auburn Street
Wollongong
NSW 2500

Attention: Colee Quayle

Your Reference: EW00250AB

Our Reference: SE76561

Samples: 68 Soils

Received: 11/03/2010

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:

SGS ENVIRONMENTAL SERVICES

Client Services: Simon Matthews

Simon.Matthews@sgs.com

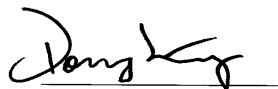
Sample Receipt: Angela Mamalicos

AU.SampleReceipt.Sydney@sgs.com

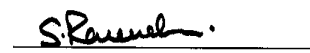
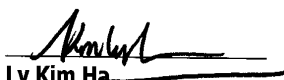
Laboratory Manager: Edward Ibrahim

Edward.Ibrahim@sgs.com

Results Approved and/or Authorised by:



Dong Liang
Quality Manager


Ravee Sivasubramaniam
Asbestos Signatory
Ly Kim Ha
Organics Signatory
Huong Crawford
Metals Signatory

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Page 1 of 24

BTEX in Soil Our Reference:	UNITS	SE76561-3 9	SE76561-4 1	SE76561-4 2	SE76561-5 3	SE76561-5 4
Your Reference	-----	CTP27_0.5- 0.6m	CTP28_0.0- 0.10m	QC9_0.0-0. 10m	CTP36_0.0- 0.10m	QC14_0.0- 0.10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled Depth		5/03/2010 0.5-0.6	5/03/2010 0.0-0.1	5/03/2010 0.0-0.1	5/03/2010 0.0-0.1	5/03/2010 0.0-0.1
Date Extracted (BTEX)		16/03/2010	16/03/2010	16/03/2010	16/03/2010	16/03/2010
Date Analysed (BTEX)		16/03/2010	16/03/2010	16/03/2010	16/03/2010	16/03/2010
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	84	129	108	105	96



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TRH in soil with C6-C9 by P/T						
Our Reference:	UNITS	SE76561-3 9	SE76561-4 1	SE76561-4 2	SE76561-5 3	SE76561-5 4
Your Reference	-----	CTP27_0.5- 0.6m	CTP28_0.0- 0.10m	QC9_0.0-0. 10m	CTP36_0.0- 0.10m	QC14_0.0- 0.10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Depth		0.5-0.6	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Extracted (TRH C6-C9 PT)		15/03/2010	15/03/2010	15/03/2010	15/03/2010	15/03/2010
Date Analysed (TRH C6-C9 PT)		16/03/2010	16/03/2010	16/03/2010	16/03/2010	16/03/2010
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		15/03/2010	15/03/2010	15/03/2010	15/03/2010	15/03/2010
Date Analysed (TRH C10-C36)		16/03/2010	16/03/2010	16/03/2010	16/03/2010	16/03/2010
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50	<50	<50	<50
TRH C ₂₉ - C ₃₆	mg/kg	<50	<50	<50	<50	<50



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PAHs in Soil Our Reference:	UNITS	SE76561-3 9	SE76561-4 1	SE76561-4 2	SE76561-5 3	SE76561-5 4
Your Reference	-----	CTP27_0.5- 0.6m	CTP28_0.0- 0.10m	QC9_0.0-0. 10m	CTP36_0.0- 0.10m	QC14_0.0- 0.10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Depth		0.5-0.6	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Extracted		15/03/2010	15/03/2010	15/03/2010	15/03/2010	15/03/2010
Date Analysed		15/03/2010	15/03/2010	15/03/2010	15/03/2010	15/03/2010
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[a]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Chrysene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[b,k]fluoranthene	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo[a]pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[ghi]perylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Total PAHs (sum)	mg/kg	<1.7	<1.7	<1.7	<1.7	<1.7
Nitrobenzene-d5	%	78	77	77	73	82
2-Fluorobiphenyl	%	72	70	71	73	73
<i>p</i> -Terphenyl-d14	%	73	70	72	69	78



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SGS Australia Pty Ltd
ABN 44 000 964 278

Page 4 of 24

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f +61 (0)2 8594 0499
www.au.sgs.com

OC Pesticides in Soil Our Reference:	UNITS	SE76561-3 9	SE76561-4 1	SE76561-4 2	SE76561-5 3	SE76561-5 4
Your Reference	-----	CTP27_0.5- 0.6m	CTP28_0.0- 0.10m	QC9_0.0-0. 10m	CTP36_0.0- 0.10m	QC14_0.0- 0.10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Depth		0.5-0.6	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Extracted		15/03/2010	15/03/2010	15/03/2010	15/03/2010	15/03/2010
Date Analysed		16/03/2010	16/03/2010	16/03/2010	16/03/2010	16/03/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>delta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	116	110	105	109	107



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PCBs in Soil Our Reference:	UNITS	SE76561-3 9	SE76561-4 1	SE76561-4 2	SE76561-5 3	SE76561-5 4
Your Reference	-----	CTP27_0.5- 0.6m	CTP28_0.0- 0.10m	QC9_0.0-0. 10m	CTP36_0.0- 0.10m	QC14_0.0- 0.10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Depth		0.5-0.6	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Extracted		15/03/2010	15/03/2010	15/03/2010	15/03/2010	15/03/2010
Date Analysed		16/03/2010	16/03/2010	16/03/2010	16/03/2010	16/03/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	116	110	105	109	107



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Metals in Soil by ICP-OES						
Our Reference:	UNITS	SE76561-3 9	SE76561-4 1	SE76561-4 2	SE76561-5 3	SE76561-5 4
Your Reference	-----	CTP27_0.5- 0.6m	CTP28_0.0- 0.10m	QC9_0.0-0. 10m	CTP36_0.0- 0.10m	QC14_0.0- 0.10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Depth		0.5-0.6	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Extracted (Metals)		16/03/2010	16/03/2010	16/03/2010	16/03/2010	16/03/2010
Date Analysed (Metals)		16/03/2010	16/03/2010	16/03/2010	16/03/2010	16/03/2010
Arsenic	mg/kg	5	<3	4	<3	<3
Cadmium	mg/kg	0.4	<0.3	0.3	<0.3	<0.3
Chromium	mg/kg	24	13	15	15	15
Copper	mg/kg	20	12	11	18	17
Lead	mg/kg	25	15	16	9.4	9.1
Nickel	mg/kg	6.3	3.7	3.8	5.4	4.9
Zinc	mg/kg	63	25	23	26	27



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Mercury Cold Vapor/Hg Analyser						
Our Reference:	UNITS	SE76561-3 9	SE76561-4 1	SE76561-4 2	SE76561-5 3	SE76561-5 4
Your Reference	-----	CTP27_0.5- 0.6m	CTP28_0.0- 0.10m	QC9_0.0-0. 10m	CTP36_0.0- 0.10m	QC14_0.0- 0.10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Depth		0.5-0.6	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Extracted (Mercury)		16/03/2010	16/03/2010	16/03/2010	16/03/2010	16/03/2010
Date Analysed (Mercury)		16/03/2010	16/03/2010	16/03/2010	16/03/2010	16/03/2010
Mercury	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05



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pHFox (1:2soil:30%peroxide)* Our Reference:	UNITS	SE76561-7	SE76561-8	SE76561-5 9	SE76561-6 0	SE76561-6 1
Your Reference	-----	CTP41_2.5- 2.6m	CTP41_3.0- 3.1m	CTP38_1.6- 1.70m	CTP38_2.5- 2.7m	CTP38_3.5- 3.6m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		1/03/2010	1/03/2010	5/03/2010	5/03/2010	5/03/2010
Depth		2.5-2.6	3.0-3.10	1.6-1.7	2.5-2.7	3.5-3.6
Date Extracted (pH 1:2 Soil: H ₂ O ₂)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
Date Analysed (pH 1:2 Soil: H ₂ O ₂)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
pHFox (1:2soil:30%peroxide)*	pH Units	1.6	1.8	4.5	4.3	4.4
Date Extracted- (pH 1:2 soil: Water)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
Date Analysed (pH 1:2 Soil: Water)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
pHf (1:2 soil:water)*	pH Units	7.5	7.7	6.9	6.2	6.1
Field pH reaction*		XXX	XXX	XX	XX	XX

pHFox (1:2soil:30%peroxide)* Our Reference:	UNITS	SE76561-6 2	SE76561-6 3	SE76561-6 4	SE76561-6 5	SE76561-6 6
Your Reference	-----	CTP39_0.0- 0.1m	CTP39_0.5- 0.6m	CTP39_1.0- 1.1m	CTP39_1.5- 1.6m	CTP39_2.2- 2.3m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Depth		0.0-0.1	0.5-0.6	1.0-1.1	1.5-1.6	2.2-2.3
Date Extracted (pH 1:2 Soil: H ₂ O ₂)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
Date Analysed (pH 1:2 Soil: H ₂ O ₂)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
pHFox (1:2soil:30%peroxide)*	pH Units	2.7	4.5	5.7	4.9	3.2
Date Extracted- (pH 1:2 soil: Water)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
Date Analysed (pH 1:2 Soil: Water)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
pHf (1:2 soil:water)*	pH Units	5.3	5.8	7.3	6.8	7.7
Field pH reaction*		XX	XX	XX	XX	XX



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pH _{Fox} (1:2soil:30%peroxide)* Our Reference:	UNITS	SE76561-6 7	SE76561-6 8	SE76561-6 9	SE76561-7 0	SE76561-7 1
Your Reference	-----	CTP40_0.0- 0.1m	CTP40_0.5- 0.6m	CTP40_1.0- 1.1m	CTP40_1.5- 1.6m	CTP40_2.2- 2.3m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled Depth		5/03/2010 0.0-0.1	5/03/2010 0.5-0.6	1.0-1.1	1.5-1.6	2.2-2.3
Date Extracted (pH 1:2 Soil: H ₂ O ₂)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
Date Analysed (pH 1:2 Soil: H ₂ O ₂)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
pH _{Fox} (1:2soil:30%peroxide)*	pH Units	3.3	3.4	3.4	5.7	1.5
Date Extracted- (pH 1:2 soil: Water)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
Date Analysed (pH 1:2 Soil: Water)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
pH _F (1:2 soil:water)*	pH Units	5.4	6.0	6.1	7.3	6.4
Field pH reaction*		XXXX	XX	XX	XX	XX

pH _{Fox} (1:2soil:30%peroxide)* Our Reference:	UNITS	SE76561-7 2	SE76561-7 3	SE76561-7 4	SE76561-7 5	SE76561-7 6
Your Reference	-----	CTP44_0.0- 0.1m	CTP44A_0. 0-0.1m	CTP44B_0. 0-0.1m	CTP44B_0. 6-0.8m	CTP44B_1. 2-1.4m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled Depth		0.0-0.1	0.0-0.1	0.0-0.1	0.6-0.8	1.2-1.4
Date Extracted (pH 1:2 Soil: H ₂ O ₂)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
Date Analysed (pH 1:2 Soil: H ₂ O ₂)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
pH _{Fox} (1:2soil:30%peroxide)*	pH Units	2.2	2.6	2.8	2.6	2.4
Date Extracted- (pH 1:2 soil: Water)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
Date Analysed (pH 1:2 Soil: Water)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
pH _F (1:2 soil:water)*	pH Units	4.4	4.5	4.5	3.6	3.9
Field pH reaction*		XX	XX	XXXX	XX	XX



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pH _{Fox} (1:2soil:30%peroxide)* Our Reference:	UNITS	SE76561-7 7	SE76561-7 8	SE76561-8 2	SE76561-8 3	SE76561-8 4
Your Reference	-----	CTP45_1.6- 1.7m	CTP45_4.0- 4.2m	CTP51_0.6 5-0.75m	CTP51_1.5- 1.6m	CTP57_0.5- 0.6m
Sample Matrix Date Sampled Depth	-----	Soil	Soil	Soil	Soil	Soil
		1.6-1.7	4.0-4.2	0.65-0.75	1.5-1.6	0.5-0.6
Date Extracted (pH 1:2 Soil: H ₂ O ₂)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
Date Analysed (pH 1:2 Soil: H ₂ O ₂)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
pH _{Fox} (1:2soil:30%peroxide)*	pH Units	2.8	1.7	5.5	6.2	4.3
Date Extracted- (pH 1:2 soil: Water)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
Date Analysed (pH 1:2 Soil: Water)*		18/03/2010	18/03/2010	18/03/2010	18/03/2010	18/03/2010
pH _F (1:2 soil:water)*	pH Units	5.0	6.1	7.4	7.4	6.3
Field pH reaction*		XX	XXXX	XX	XXX	XX

pH _{Fox} (1:2soil:30%peroxide)* Our Reference:	UNITS	SE76561-8 7
Your Reference	-----	CTP56_1.3- 1.4m
Sample Matrix Date Sampled Depth	-----	Soil
		1.3-1.4
Date Extracted (pH 1:2 Soil: H ₂ O ₂)*		18/03/2010
Date Analysed (pH 1:2 Soil: H ₂ O ₂)*		18/03/2010
pH _{Fox} (1:2soil:30%peroxide)*	pH Units	4.4
Date Extracted- (pH 1:2 soil: Water)*		18/03/2010
Date Analysed (pH 1:2 Soil: Water)*		18/03/2010
pH _F (1:2 soil:water)*	pH Units	5.3
Field pH reaction*		XX



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Asbestos ID in soil					
Our Reference:	UNITS	SE76561-3 9	SE76561-4 1	SE76561-5 3	SE76561-9 9
Your Reference	-----	CTP27_0.5- 0.6m	CTP28_0.0- 0.10m	CTP36_0.0- 0.10m	CTP62_0.0- 0.1m
Sample Matrix	-----	Soil	Soil	Soil	Soil
Date Sampled		5/03/2010	5/03/2010	5/03/2010	5/03/2010
Depth		0.5-0.6	0.0-0.1	0.0-0.1	0.0-0.1
Date Analysed		17/03/2010	17/03/2010	17/03/2010	17/03/2010
Sample Description		21g Soil	17g Soil	29g Soil	7g Soil
Asbestos ID in soil	-	No asbestos detected	No asbestos detected	No asbestos detected	No asbestos detected



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Asbestos ID in materials Our Reference:	UNITS	SE76561-1 00
Your Reference	-----	CTP62_0.0- 0.1m (surface)
Sample Matrix Date Sampled Depth	-----	Material 0.0-0.1
Date Analysed		17/03/2010
Sample Description		65x40x2m m cement sheet and 5g soil
Asbestos ID in materials	-	Chrysotile asbestos detected



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Moisture						
Our Reference:	UNITS	SE76561-7	SE76561-8	SE76561-3 9	SE76561-4 1	SE76561-4 2
Your Reference	-----	CTP41_2.5- 2.6m	CTP41_3.0- 3.1m	CTP27_0.5- 0.6m	CTP28_0.0- 0.10m	QC9_0.0-0. 10m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		1/03/2010	1/03/2010	5/03/2010	5/03/2010	5/03/2010
Depth		2.5-2.6	3.0-3.10	0.5-0.6	0.0-0.1	0.0-0.1
Date Analysed (moisture)		15/03/2009	15/03/2009	15/03/2009	15/03/2009	15/03/2009
Moisture	%	18	24	23	10	10

Moisture						
Our Reference:	UNITS	SE76561-5 3	SE76561-5 4	SE76561-5 9	SE76561-6 0	SE76561-6 1
Your Reference	-----	CTP36_0.0- 0.10m	QC14_0.0- 0.10m	CTP38_1.6- 1.70m	CTP38_2.5- 2.7m	CTP38_3.5- 3.6m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Depth		0.0-0.1	0.0-0.1	1.6-1.7	2.5-2.7	3.5-3.6
Date Analysed (moisture)		15/03/2009	15/03/2009	15/03/2009	15/03/2009	15/03/2009
Moisture	%	20	20	20	17	20

Moisture						
Our Reference:	UNITS	SE76561-6 2	SE76561-6 3	SE76561-6 4	SE76561-6 5	SE76561-6 6
Your Reference	-----	CTP39_0.0- 0.1m	CTP39_0.5- 0.6m	CTP39_1.0- 1.1m	CTP39_1.5- 1.6m	CTP39_2.2- 2.3m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		5/03/2010	5/03/2010	5/03/2010	5/03/2010	5/03/2010
Depth		0.0-0.1	0.5-0.6	1.0-1.1	1.5-1.6	2.2-2.3
Date Analysed (moisture)		15/03/2009	15/03/2009	15/03/2009	15/03/2009	15/03/2009
Moisture	%	26	19	20	17	25

Moisture						
Our Reference:	UNITS	SE76561-6 7	SE76561-6 8	SE76561-6 9	SE76561-7 0	SE76561-7 1
Your Reference	-----	CTP40_0.0- 0.1m	CTP40_0.5- 0.6m	CTP40_1.0- 1.1m	CTP40_1.5- 1.6m	CTP40_2.2- 2.3m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		5/03/2010	5/03/2010			
Depth		0.0-0.1	0.5-0.6	1.0-1.1	1.5-1.6	2.2-2.3
Date Analysed (moisture)		15/03/2009	15/03/2009	15/03/2009	15/03/2009	15/03/2009
Moisture	%	25	22	22	18	35



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Moisture						
Our Reference:	UNITS	SE76561-7 2	SE76561-7 3	SE76561-7 4	SE76561-7 5	SE76561-7 6
Your Reference	-----	CTP44_0.0- 0.1m	CTP44A_0. 0-0.1m	CTP44B_0. 0-0.1m	CTP44B_0. 6-0.8m	CTP44B_1. 2-1.4m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled						
Depth		0.0-0.1	0.0-0.1	0.0-0.1	0.6-0.8	1.2-1.4
Date Analysed (moisture)		15/03/2009	15/03/2009	15/03/2009	15/03/2009	15/03/2009
Moisture	%	21	22	40	19	24

Moisture						
Our Reference:	UNITS	SE76561-7 7	SE76561-7 8	SE76561-8 2	SE76561-8 3	SE76561-8 4
Your Reference	-----	CTP45_1.6- 1.7m	CTP45_4.0- 4.2m	CTP51_0.6 5-0.75m	CTP51_1.5- 1.6m	CTP57_0.5- 0.6m
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled						
Depth		1.6-1.7	4.0-4.2	0.65-0.75	1.5-1.6	0.5-0.6
Date Analysed (moisture)		15/03/2009	15/03/2009	15/03/2009	15/03/2009	15/03/2009
Moisture	%	19	59	23	23	25

Moisture		
Our Reference:	UNITS	SE76561-8 7
Your Reference	-----	CTP56_1.3- 1.4m
Sample Matrix	-----	Soil
Date Sampled		
Depth		1.3-1.4
Date Analysed (moisture)		15/03/2009
Moisture	%	27

Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEO-005	OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
AN101	pH - Measured using pH meter and electrode based on APHA 21st Edition, 4500-H+. For water analyses the results reported are indicative only as the sample holding time requirement specified in APHA was not met (APHA requires that the pH of the samples are to be measured within 15 minutes after sampling).
AN602	Analysed using in house method AN602 - Qualitative identification of Asbestos Fibres, Synthetic Mineral Fibres and Organic Fibres in bulk samples (including building materials and soils) using Polarised Light Microscopy and Dispersion Staining Techniques. Our NATA Accreditation does not currently cover the identification of Synthetic Mineral Fibres and Organic Fibres, however, according to new NATA requirements, the reporting of these fibres is compulsory if detected.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C.



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
BTEX in Soil								
Date Extracted (BTEX)				15/03/10	SE76561-39	16/03/2010 16/03/2010	SE76561-41	15/03/10
Date Analysed (BTEX)				16/03/10	SE76561-39	16/03/2010 16/03/2010	SE76561-41	16/03/10
Benzene	mg/kg	0.1	SEO-018	<0.1	SE76561-39	<0.1 <0.1	SE76561-41	114%
Toluene	mg/kg	0.1	SEO-018	<0.1	SE76561-39	<0.1 <0.1	SE76561-41	116%
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1	SE76561-39	<0.1 <0.1	SE76561-41	114%
Total Xylenes	mg/kg	0.3	SEO-018	<0.3	SE76561-39	<0.3 <0.3	SE76561-41	108%
BTEX Surrogate (%)	%	0	SEO-018	104	SE76561-39	84 95 RPD: 12	SE76561-41	124%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH in soil with C6-C9 by P/T								
Date Extracted (TRH C6-C9 PT)				15/03/10	SE76561-39	15/03/2010 15/03/2010	SE76561-41	15/03/10
Date Analysed (TRH C6-C9 PT)				16/03/10	SE76561-39	16/03/2010 16/03/2010	SE76561-41	16/03/10
TRH C ₆ - C ₉ P&T	mg/kg	20	SEO-018	<20	SE76561-39	<20 <20	SE76561-41	84%
Date Extracted (TRH C10-C36)				15/03/10	SE76561-39	15/03/2010 15/03/2010	SE76561-41	15/03/10
Date Analysed (TRH C10-C36)				16/03/10	SE76561-39	16/03/2010 16/03/2010	SE76561-41	16/03/10
TRH C ₁₀ - C ₁₄	mg/kg	20	SEO-020	<20	SE76561-39	<20 <20	SE76561-41	98%
TRH C ₁₅ - C ₂₈	mg/kg	50	SEO-020	<50	SE76561-39	<50 <50	SE76561-41	100%
TRH C ₂₉ - C ₃₆	mg/kg	50	SEO-020	<50	SE76561-39	<50 <50	SE76561-41	88%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PAHs in Soil								
Date Extracted				15/03/2010	SE76561-39	15/03/2010 15/03/2010	SE76561-42	15/03/2010
Date Analysed				15/03/2010	SE76561-39	15/03/2010 15/03/2010	SE76561-42	15/03/2010
Naphthalene	mg/kg	0.1	SEO-030	<0.10	SE76561-39	<0.10 <0.10	SE76561-42	101%
2-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE76561-39	<0.10 <0.10	[NR]	[NR]
1-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE76561-39	<0.10 <0.10	[NR]	[NR]
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	SE76561-39	<0.10 <0.10	SE76561-42	102%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	SE76561-39	<0.10 <0.10	SE76561-42	115%
Fluorene	mg/kg	0.1	SEO-030	<0.10	SE76561-39	<0.10 <0.10	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	SE76561-39	<0.10 <0.10	SE76561-42	102%
Anthracene	mg/kg	0.1	SEO-030	<0.10	SE76561-39	<0.10 <0.10	SE76561-42	111%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE76561-39	<0.10 <0.10	SE76561-42	106%
Pyrene	mg/kg	0.1	SEO-030	<0.10	SE76561-39	<0.10 <0.10	SE76561-42	111%
Benzo[a]anthracene	mg/kg	0.1	SEO-030	<0.10	SE76561-39	<0.10 <0.10	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	SE76561-39	<0.10 <0.10	[NR]	[NR]
Benzo[b,k]fluoranthene	mg/kg	0.2	SEO-030	<0.20	SE76561-39	<0.20 <0.20	[NR]	[NR]
Benzo[a]pyrene	mg/kg	0.05	SEO-030	<0.05	SE76561-39	<0.05 <0.05	SE76561-42	105%
Indeno[123-cd]pyrene	mg/kg	0.1	SEO-030	<0.10	SE76561-39	<0.10 <0.10	[NR]	[NR]
Dibenzo[ah]anthracene	mg/kg	0.1	SEO-030	<0.10	SE76561-39	<0.10 <0.10	[NR]	[NR]
Benzo[ghi]perylene	mg/kg	0.1	SEO-030	<0.10	SE76561-39	<0.10 <0.10	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.75	SEO-030	<1.7	SE76561-39	<1.7 <1.7	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	71	SE76561-39	78 79 RPD: 1	SE76561-42	79%
2-Fluorobiphenyl	%	0	SEO-030	72	SE76561-39	72 70 RPD: 3	SE76561-42	71%
p -Terphenyl-d14	%	0	SEO-030	79	SE76561-39	73 73 RPD: 0	SE76561-42	75%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OC Pesticides in Soil								
Date Extracted				15/03/10	[NT]	[NT]	LCS	15/03/10
Date Analysed				16/03/10	[NT]	[NT]	LCS	16/03/10
HCB	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>alpha</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
gamma-BHC (Lindane)	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Heptachlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	114%
Aldrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	117%
<i>beta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>delta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	107%
Heptachlor Epoxide	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>o,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>alpha</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>trans</i> -Chlordane	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>cis</i> -Chlordane	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>trans</i> -Nonachlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Dieldrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	117%
Endrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	116%
<i>o,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>o,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>beta</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	120%
Endosulfan Sulphate	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Methoxychlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Ketone	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	0	SEO-005	101	[NT]	[NT]	LCS	101%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PCBs in Soil								
Date Extracted				15/03/10	[NT]	[NT]	LCS	15/03/10
Date Analysed				16/03/10	[NT]	[NT]	LCS	16/03/10
Arochlor 1016	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1260	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	92%
Arochlor 1262	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1268	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Total Positive PCB	mg/kg	0.9	SEO-005	<0.90	[NT]	[NT]	[NR]	[NR]
PCB_Surrogate 1	%	0	SEO-005	101	[NT]	[NT]	LCS	105%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Metals in Soil by ICP-OES								
Date Extracted (Metals)				16/03/2010	[NT]	[NT]	LCS	16/03/2010
Date Analysed (Metals)				16/03/2010	[NT]	[NT]	LCS	16/03/2010
Arsenic	mg/kg	3	SEM-010	<3	[NT]	[NT]	LCS	102%
Cadmium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	104%
Chromium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	105%
Copper	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	106%
Lead	mg/kg	1	SEM-010	<1	[NT]	[NT]	LCS	103%
Nickel	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	102%
Zinc	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	101%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
Mercury Cold Vapor/Hg Analyser						Base + Duplicate + %RPD		Duplicate + %RPD
Date Extracted (Mercury)				16/03/2010	[NT]	[NT]	LCS	16/03/2010
Date Analysed (Mercury)				16/03/2010	[NT]	[NT]	LCS	16/03/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	[NT]	[NT]	LCS	101%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
pH _{fox} (1:2soil:30%peroxide)*						Base + Duplicate + %RPD		Duplicate + %RPD
Date Extracted (pH 1:2 Soil: H ₂ O ₂)*				[NT]	SE76561-7	18/03/2010 18/03/2010	[NR]	[NR]
Date Analysed (pH 1:2 Soil: H ₂ O ₂)*				[NT]	SE76561-7	18/03/2010 18/03/2010	[NR]	[NR]
pH _{fox} (1:2soil:30%peroxide)*	pH Units		AN101	[NT]	SE76561-7	1.6 1.7 RPD: 6	[NR]	[NR]
Date Extracted- (pH 1:2 soil: Water)*				[NT]	SE76561-7	18/03/2010 18/03/2010	[NR]	[NR]
Date Analysed (pH 1:2 Soil: Water)*				[NT]	SE76561-7	18/03/2010 18/03/2010	[NR]	[NR]
pH _f (1:2 soil:water)*	pH Units		AN101	[NT]	SE76561-7	7.5 7.5 RPD: 0	[NR]	[NR]
Field pH reaction*			AN101	[NT]	SE76561-7	XXX XXX	[NR]	[NR]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Asbestos ID in soil				
Date Analysed				[NT]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Asbestos ID in materials				
Date Analysed				[NT]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Hold sample- NO test required				
Sample on HOLD		[NT]		[NT]



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Moisture				
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1

QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
pH _{Fox} (1:2soil:30%peroxide)*			
Date Extracted (pH 1:2 Soil: H ₂ O ₂)*		SE76561-6 5	18/03/2010 18/03/2010
Date Analysed (pH 1:2 Soil: H ₂ O ₂)*		SE76561-6 5	18/03/2010 18/03/2010
pH _{Fox} (1:2soil:30%peroxide)*	pH Units	SE76561-6 5	4.9 5.1 RPD: 4
Date Extracted- (pH 1:2 soil: Water)*		SE76561-6 5	18/03/2010 18/03/2010
Date Analysed (pH 1:2 Soil: Water)*		SE76561-6 5	18/03/2010 18/03/2010
pH _F (1:2 soil:water)*	pH Units	SE76561-6 5	6.8 6.8 RPD: 0
Field pH reaction*		SE76561-6 5	XX XX

QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
pH _{Fox} (1:2soil:30%peroxide)*			
Date Extracted (pH 1:2 Soil: H ₂ O ₂)*		SE76561-7 5	18/03/2010 18/03/2010
Date Analysed (pH 1:2 Soil: H ₂ O ₂)*		SE76561-7 5	18/03/2010 18/03/2010
pH _{Fox} (1:2soil:30%peroxide)*	pH Units	SE76561-7 5	2.6 2.7 RPD: 4
Date Extracted- (pH 1:2 soil: Water)*		SE76561-7 5	18/03/2010 18/03/2010
Date Analysed (pH 1:2 Soil: Water)*		SE76561-7 5	18/03/2010 18/03/2010
pH _F (1:2 soil:water)*	pH Units	SE76561-7 5	3.6 3.6 RPD: 0
Field pH reaction*		SE76561-7 5	XX XX



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Result Codes

[INS] :	Insufficient Sample for this test	[RPD] :	Relative Percentage Difference
[NR] :	Not Requested	*	Not part of NATA Accreditation
[NT] :	Not tested	[N/A] :	Not Applicable

Report Comments

pH Fox- Field pH reaction: X: mildly reactive
 XX: moderately reactive
 XXX: highly reactive
 XXXX: Extremely reactive

Sampled by the client

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy.

This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

No respirable fibres detected using trace analysis technique.

Sample # 100: 1-2mm length fibre bundles found both loose in soil and cement sheet fragments.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)

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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.



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Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>



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Client Details

Requested By : **Colee Quayle**
 Client : Coffey Environments Pty Ltd
 Contact : Colee Quayle
 Address : 118 Auburn Street
 Wollongong NSW 2500

 Email : Colee_Quayle@coffey.com
 Telephone : 02 4201 1400
 Facsimile : 02 4201 1401

 Project : EW00250AB
 Order Number : 27871-27875, 27870
 Samples : 68 Soils

Laboratory Details

Laboratory : SGS Environmental Services
 Manager : Edward Ibrahim
 Address : Unit 16, 33 Maddox Street
 Alexandria NSW 2015

 Email : au.samplereceipt.sydney@sgs.com
 Telephone : 61 2 8594 0400
 Facsimile : 61 2 8594 0499

 Report No : **SE76561**
 No. of Samples : 100
 Due Date : 18/03/2010

Date Instructions Received : 11/03/2010
 Sample Receipt Date : 11/03/2010

Samples received in good order	: NO	Samples received in correct container:	YES
Samples received without headspace	: YES	Sufficient quantity supplied	: YES
Upon receipt sample temperature	: Cool	Cooling Method	: Ice Pack
Sample containers provided by	: SGS	Samples clearly Labelled	: YES
Turnaround time requested	: Standard	Completed documentation received	: YES

Samples will be held for 1 month for water samples and 3 months for soil samples from date of receipt of samples, unless otherwise instructed.

Comments

Second batch of samples related to COC supplied received at SGS 15/03/2010@9.00am. Samples supplied were related to previous missing samples. Additional samples supplied refer to SGS report SE76607.

After the supply of two batches the following continues to apply:-

Summary of Ziplock bag portions (for asbestos), Bag portions (for ASS) and glass jar samples (Chemical Analysis) MISSING and not received at SGS are:-

Sample ids for Ziplock bag portions (for asbestos) not received are:-

CTP59_0.0-0.1, QC7_0.0-0.1, QC8_0.0-0.1, QC10_0.0-0.1, CTP27_0.0-0.1,
 QC9_0.0-0.1, QC11_0.0-0.1, QC12_0.0-0.1, QC14_0.0-0.1, QC13_0.0-0.1,

Sample ids for Bag portions (for ASS) not received are:-

CTP41_1.8-1.9, CTP36_2.0-2.1, CTP41_0.65-0.75, CTP41_1.1-1.2,
 CTP41_1.8-1.9, CTP66_2.4-2.6, CTP66_3.1-3.3, CTP40_0.0-0.1, CTP40_0.5-0.6, CTP40_1.0-1.1,
 CTP40_1.5-1.6, CTP40_2.2-2.3

Sample ids for Glass jar samples (for chemical analysis) not received are:-CTP59_0.0-0.1

Sample id CT31_0.0-0.1 and CTP48_0.3-0.4 was received with two ziplock bag portions.

Additional samples received not listed on original COC supplied are:-

CTP55_0.0-0.1 (Jar + zip bag), CTP56_0.0-0.1 (ASS bag only), CTP56_0.5-0.6 (ASS bag only),
 CTP56_2.5-2.6 (ASS bag only), CTP57_0.0-0.1 (ASS bag only) and CTP57_1.5-1.6 (ASS bag only)

All samples placed on HOLD.

Asbestos analysis not conducted on QC9_0.0-0.1 &
 QC14_0.0-0.1. Seperate ziplock portions ~100g
 not supplied.



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : EW00250AB

Report No : SE76561

Summary of Samples and Requested Analysis

The table below represents SGS Environmental Service's understanding and interpretation of the customer supplied sample request.

Please indicate ASAP if your request differs from these details.

Testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

Note that a small X in the table below indicates some testing has not been requested in the package.

Sample No.	Description	Metals Prep, soil 8 HM	BTEX in Soil	TRH in soil with C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	pHFOX (1:2soil:30%peroxide)*	Asbestos ID in soil	Asbestos ID in materials	Hold sample-NO test required	Moisture
1	CTP41_0.0-0.1m												X	
2	QC4_0.0-0.1m												X	
3	CTP41_0.65-0.75m												X	
4	CTP41_0.65-0.75m												X	
5	CTP41_1.10-1.20m												X	
7	CTP41_2.5-2.6m									X				X
8	CTP41_3.0-3.1m									X				X
9	CTP47_0.0-0.10m												X	
10	CTP49_0.0-0.10m												X	
11	QC5_0.0-0.10m												X	
12	CTP50_0.0-0.10m												X	
13	CTP48_0.0-0.10m												X	
14	QC6_0.0-0.10m												X	
15	CTP48_0.3-0.4m												X	
16	CTP52_0.0-0.10m												X	
17	CTP51_0.0-0.10m												X	
18	CTP51_0.65-0.75m												X	
19	CTP54_0.0-0.10m												X	



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : EW00250AB

Report No : SE76561

Sample No.	Description	Metals Prep, soil 8 HM	BTEX in Soil	TRH in soil with C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	pHFOX (1:2soil:30%peroxide)*	Asbestos ID in soil	Asbestos ID in materials	Hold sample-NO test required	Moisture
20	CTP55_0.0-0.10m												X	
21	CTP56_0.0-0.10m												X	
22	CTP57_0.0-0.10m												X	
23	CTP55_0.0-0.10m												X	
24	CTP58_0.0-0.10m												X	
25	CTP59_0.0-0.10m												X	
26	CTP60_0.0-0.10m												X	
27	QC7_0.0-0.10m												X	
28	CTP64_0.0-0.10m												X	
29	CTP65_0.0-0.10m												X	
30	CTP66_0.0-0.10m												X	
31	QC8_0.0-0.10m												X	
32	CTP66_0.8-1.0m												X	
33	CTP66_2.4-2.6m												X	
34	CTP66_2.4-2.6m												X	
35	CTP66_3.1-3.3m												X	
36	CTP26_0.0-0.10m												X	
37	QC10_0.0-0.10m												X	
38	CTP27_0.0-0.10m												X	
39	CTP27_0.5-0.6m	X	X	X	X	X	X	X	X		X			X
40	CTP27_1.2-1.30m												X	
41	CTP28_0.0-0.10m	X	X	X	X	X	X	X	X		X			X
42	QC9_0.0-0.10m	X	X	X	X	X	X	X	X					X
43	CTP28_0.8-0.90m												X	

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : EW00250AB

Report No : SE76561

Sample No.	Description	Metals Prep, soil 8 HM	BTEX in Soil	TRH in soil with C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	pHFOX (1:2soil:30%peroxide)*	Asbestos ID in soil	Asbestos ID in materials	Hold sample-NO test required	Moisture
44	CTP29_0.0-0.10m												X	
45	QC11_0.0-0.10m												X	
46	CTP30_0.0-0.10m												X	
47	QC12_0.0-0.10m												X	
48	CTP31_0.0-0.10m												X	
49	CTP32_0.0-0.10m												X	
50	CTP33_0.0-0.10m												X	
51	CTP34_0.0-0.10m												X	
52	CTP35_0.0-0.10m												X	
53	CTP36_0.0-0.10m	X	X	X	X	X	X	X	X		X			X
54	QC14_0.0-0.10m	X	X	X	X	X	X	X	X					X
55	CTP36_1.0-1.1m												X	
57	CTP37_0.0-0.10m												X	
58	QC13_0.0-0.10m												X	
59	CTP38_1.6-1.70m									X				X
60	CTP38_2.5-2.7m									X				X
61	CTP38_3.5-3.6m									X				X
62	CTP39_0.0-0.1m									X				X
63	CTP39_0.5-0.6m									X				X
64	CTP39_1.0-1.1m									X				X
65	CTP39_1.5-1.6m									X				X
66	CTP39_2.2-2.3m									X				X
67	CTP40_0.0-0.1m									X				X
68	CTP40_0.5-0.6m									X				X

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : EW00250AB

Report No : SE76561

Sample No.	Description	Metals Prep, soil 8 HM	BTEX in Soil	TRH in soil with C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	pHFOX (1:2soil:30%peroxide)*	Asbestos ID in soil	Asbestos ID in materials	Hold sample-NO test required	Moisture
69	CTP40_1.0-1.1m									X				X
70	CTP40_1.5-1.6m									X				X
71	CTP40_2.2-2.3m									X				X
72	CTP44_0.0-0.1m									X				X
73	CTP44A_0.0-0.1m									X				X
74	CTP44B_0.0-0.1m									X				X
75	CTP44B_0.6-0.8m									X				X
76	CTP44B_1.2-1.4m									X				X
77	CTP45_1.6-1.7m									X				X
78	CTP45_4.0-4.2m									X				X
82	CTP51_0.65-0.75m									X				X
83	CTP51_1.5-1.6m									X				X
84	CTP57_0.5-0.6m									X				X
87	CTP56_1.3-1.4m									X				X
93	CTP55_0.0-0.1m												X	
94	CTP56_0.0-0.1m												X	
95	CTP56_0.5-0.6m												X	
96	CTP56_2.5-2.6m												X	
97	CTP57_0.0-0.1m												X	
98	CTP57_1.5-1.6m												X	
99	CTP62_0.0-0.1m										X			
100	CTP62_0.0-0.1m (surface)											X		



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
Project : EW00250AB

Report No : SE76561

Sample No.	Description
1	CTP41_0.0-0.1m
2	QC4_0.0-0.1m
3	CTP41_0.65-0.75m
4	CTP41_0.65-0.75m
5	CTP41_1.10-1.20m
7	CTP41_2.5-2.6m
8	CTP41_3.0-3.1m
9	CTP47_0.0-0.10m
10	CTP49_0.0-0.10m
11	QC5_0.0-0.10m
12	CTP50_0.0-0.10m
13	CTP48_0.0-0.10m
14	QC6_0.0-0.10m
15	CTP48_0.3-0.4m
16	CTP52_0.0-0.10m
17	CTP51_0.0-0.10m
18	CTP51_0.65-0.75m
19	CTP54_0.0-0.10m
20	CTP55_0.0-0.10m
21	CTP56_0.0-0.10m
22	CTP57_0.0-0.10m
23	CTP55_0.0-0.10m
24	CTP58_0.0-0.10m
25	CTP59_0.0-0.10m
26	CTP60_0.0-0.10m
27	QC7_0.0-0.10m
28	CTP64_0.0-0.10m
29	CTP65_0.0-0.10m
30	CTP66_0.0-0.10m



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
Project : EW00250AB

Report No : SE76561

Sample No.	Description
31	QC8_0.0-0.10m
32	CTP66_0.8-1.0m
33	CTP66_2.4-2.6m
34	CTP66_2.4-2.6m
35	CTP66_3.1-3.3m
36	CTP26_0.0-0.10m
37	QC10_0.0-0.10m
38	CTP27_0.0-0.10m
39	CTP27_0.5-0.6m
40	CTP27_1.2-1.30m
41	CTP28_0.0-0.10m
42	QC9_0.0-0.10m
43	CTP28_0.8-0.90m
44	CTP29_0.0-0.10m
45	QC11_0.0-0.10m
46	CTP30_0.0-0.10m
47	QC12_0.0-0.10m
48	CTP31_0.0-0.10m
49	CTP32_0.0-0.10m
50	CTP33_0.0-0.10m
51	CTP34_0.0-0.10m
52	CTP35_0.0-0.10m
53	CTP36_0.0-0.10m
54	QC14_0.0-0.10m
55	CTP36_1.0-1.1m
57	CTP37_0.0-0.10m
58	QC13_0.0-0.10m
59	CTP38_1.6-1.70m
60	CTP38_2.5-2.7m



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
Project : EW00250AB

Report No : SE76561

Sample No.	Description
61	CTP38_3.5-3.6m
62	CTP39_0.0-0.1m
63	CTP39_0.5-0.6m
64	CTP39_1.0-1.1m
65	CTP39_1.5-1.6m
66	CTP39_2.2-2.3m
67	CTP40_0.0-0.1m
68	CTP40_0.5-0.6m
69	CTP40_1.0-1.1m
70	CTP40_1.5-1.6m
71	CTP40_2.2-2.3m
72	CTP44_0.0-0.1m
73	CTP44A_0.0-0.1m
74	CTP44B_0.0-0.1m
75	CTP44B_0.6-0.8m
76	CTP44B_1.2-1.4m
77	CTP45_1.6-1.7m
78	CTP45_4.0-4.2m
82	CTP51_0.65-0.75m
83	CTP51_1.5-1.6m
84	CTP57_0.5-0.6m
87	CTP56_1.3-1.4m
93	CTP55_0.0-0.1m
94	CTP56_0.0-0.1m
95	CTP56_0.5-0.6m
96	CTP56_2.5-2.6m
97	CTP57_0.0-0.1m
98	CTP57_1.5-1.6m
99	CTP62_0.0-0.1m



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
Project : EW00250AB

Report No : SE76561

Sample No.	Description
100	CTP62_0.0-0.1m (surface)



Chain of Custody

Save for pg-1-4

No: 27871

Dispatch to:
(Address & Phone No.)

S6S
1633 Maddox St Alexandria
NSW

Laboratory Quotation / Order No:

Job No: EW0220AB Sheet 1 of 5

Attention:

Project Manager:
(report results to)

Chris Appelkamp
Cokee Dale

Consigning Officer: Wollougang
Date Dispatched: 9/3/10

Courier Service: MFB

Consignment Note No: 315918

2Eshies
Page 1

Relinquished by:

Chris Appelkamp

Date: 9/3/10 Time: 7pm

Received by: Dave

Date: 11/3/10 Time: 12:00pm

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required				Sample Condition on Receipt
					PAHs	TPHs	MAHs = BTEX	Metals:	
CTP41 RCL4	SOIL	jar zip bag	0.0 - 0.10m	1/3/10					
CTP41 RCL4		jar zip bag	0.0 - 0.10m						
		jar zip bag	0.65 - 0.75m						
		jar zip bag	0.65 - 0.75m						
		jar zip bag	1.10 - 1.20m						
		jar zip bag	1.8 - 1.90m						
		jar zip bag	2.5 - 2.6m						
		jar zip bag	3.0 - 3.10m						
CTP47		jar zip bag	0.0m to 0.10m	3/3/10					
CTP49		jar zip bag	0.0m to 0.10m	3/3/10					
QC5		jar zip bag	0.0m to 0.10m	3/3/10					
CTP50		jar zip bag	0.0m to 0.10m	3/3/10					
CTP48		jar zip bag	0.0m to 0.10m	3/3/10					
QC6		jar zip bag	0.0m to 0.10m	3/3/10					
CTP48		jar zip bag	0.30m to 0.40m	3/3/10					
CTP52		jar zip bag	0.0m to 0.10m	3/3/10					
CTP51		jar zip bag	0.0m to 0.10m	3/3/10					

Special Laboratory Instructions:

Retention Units:

Red: WHITE: Sign on release

Yellow: If dispatched to interstate Lab. Lab to sign on receipt and fax back to Coffey.

Blue: To be returned with results.

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES



Chain of Custody

Laboratory Quotation / Order No:

Job No: EMO2507AB

Sheet 2

of 5

No: 27872

Dispatch to:
(Address &
Phone No.)

SGS

Sampled by: CHRIS APPELLCAMP

Consigning Officer:

Date Dispatched:

9/3/10

Attention:

Project Manager:
(report results to)

Colin Gault

Courier Service:

Consignment Note No:

Relinquished by:

Date:

Time:

Received by:

David

Date:

Time:

11/3/10

1200pm

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analytes Required						Sample Condition on Receipt		
					PAHs	TPHs	MAHs = BTEX	Metals	OCP	PCB		Asbestos	
CIP51	Soil	Jar, zip, bag	0.65m to 0.75m	3/3/10									
CIP54	Soil	" "	0.0m to 0.10m										
CIP55	Soil		0.0m to 0.10m										
CIP56	Soil		0.0m to 0.10m										
CIP57	Soil		0.0m to 0.10m										
CIP58	Soil		0.0m to 0.10m	4/3/10									
CIP59	Soil	Jar	0.0 to 0.10m	4/3/10									
CIP60	Soil	Jar	0.0m to 0.10m										
CIP61	Soil	Zip	0.0m to 0.10m										
CIP62	Soil	Zip	0.8 to 1.0m										
CIP63	Soil	Zip	2.4 to 2.60m										
CIP64	Soil	Zip	2.4 to 2.60m										
CIP65	Soil	Zip	2.4 to 2.60m										
CIP66	Soil	Zip	3.1 to 3.3m										
CIP67	Soil	Zip	3.1 to 3.3m										
CIP68	Soil	Zip	3.1 to 3.3m										
CIP69	Soil	Zip	3.1 to 3.3m										
CIP70	Soil	Zip	3.1 to 3.3m										
CIP71	Soil	Zip	3.1 to 3.3m										
CIP72	Soil	Zip	3.1 to 3.3m										
CIP73	Soil	Zip	3.1 to 3.3m										
CIP74	Soil	Zip	3.1 to 3.3m										
CIP75	Soil	Zip	3.1 to 3.3m										
CIP76	Soil	Zip	3.1 to 3.3m										
CIP77	Soil	Zip	3.1 to 3.3m										
CIP78	Soil	Zip	3.1 to 3.3m										
CIP79	Soil	Zip	3.1 to 3.3m										
CIP80	Soil	Zip	3.1 to 3.3m										
CIP81	Soil	Zip	3.1 to 3.3m										
CIP82	Soil	Zip	3.1 to 3.3m										
CIP83	Soil	Zip	3.1 to 3.3m										
CIP84	Soil	Zip	3.1 to 3.3m										
CIP85	Soil	Zip	3.1 to 3.3m										
CIP86	Soil	Zip	3.1 to 3.3m										
CIP87	Soil	Zip	3.1 to 3.3m										
CIP88	Soil	Zip	3.1 to 3.3m										
CIP89	Soil	Zip	3.1 to 3.3m										
CIP90	Soil	Zip	3.1 to 3.3m										
CIP91	Soil	Zip	3.1 to 3.3m										
CIP92	Soil	Zip	3.1 to 3.3m										
CIP93	Soil	Zip	3.1 to 3.3m										
CIP94	Soil	Zip	3.1 to 3.3m										
CIP95	Soil	Zip	3.1 to 3.3m										
CIP96	Soil	Zip	3.1 to 3.3m										
CIP97	Soil	Zip	3.1 to 3.3m										
CIP98	Soil	Zip	3.1 to 3.3m										
CIP99	Soil	Zip	3.1 to 3.3m										
CIP100	Soil	Zip	3.1 to 3.3m										

Detection Limits: *metals As, Cd, Cr, Cu, Pb, Zn, Ni, Hg

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: WHITE: Sign on release. YELLOW: If dispatched to interstate Lab, Lab to sign on receipt and fax back to Coffey. BLUE: To be returned with results.



Chain of Custody

Laboratory Quotation / Order No:

Job No: EW00250AB

No: 27873

Sheet 3 of 5

Dispatch to:
Address &
Phone No.)

S6S

Sampled by: CHRIS Appelkamp

Consigning Officer:

Date Dispatched: 9/13/10

Attention:

Project Manager: Colleen Dwyer

Carrier Service:

Consignment Note No:

Relinquished by:

Date:

Time:

Received by:

Daniel

Date: 11/3/10

Time: 12:00pm

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required					Sample Condition on Receipt	
					PAHs	TPHs	MAHs = BTEX	Metals*	OC		PCB
CTP 26	Soil	Zip, Bag	0.0m to 0.10m	5/3/10	/	/	/	/	/	/	
OC 10		Zip	0.0m to 0.10m		/	/	/	/	/	/	
CTP 27		Zip	0.0m to 0.10m		/	/	/	/	/	/	
CTP 27		Zip	0.5m to 0.60m		/	/	/	/	/	/	
CTP 27			1.2m to 1.30m		/	/	/	/	/	/	
CTP 28			0.0m to 0.10m		/	/	/	/	/	/	
OC 9		Zip	0.0m to 0.10m		/	/	/	/	/	/	
CTP 28			0.8m to 0.90m		/	/	/	/	/	/	
CTP 29			0.0m to 0.10m		/	/	/	/	/	/	
OC 11		Zip	0.0m to 0.10m		/	/	/	/	/	/	
CTP 30		Zip			/	/	/	/	/	/	
OC 12		Zip			/	/	/	/	/	/	
CTP 31					/	/	/	/	/	/	
CTP 32					/	/	/	/	/	/	
CTP 33					/	/	/	/	/	/	
CTP 34					/	/	/	/	/	/	
CTP 35					/	/	/	/	/	/	

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

Copies: WHITE: Sign on release. YELLOW: If dispatched to Interstate Lab. Lab to sign on receipt and fax back to Coffey. BLUE: To be returned with results.

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES



Chain of Custody

Laboratory Quotation / Order No:

Job No: EW00250AB Sheet

4 of 5

No: 27874

Dispatch to:
(Address &
Phone No.)

SGS.

Attention:

Project Manager:
(report results to)

Chris Applekamp
Celia Doyle

Consigning Officer:

Date Dispatched: 9/3/10

Courier Service:

Consignment Note No:

Relinquished by:

Date:

Time:

Received by:

Panel

Date: 11/3/10

Time: 12:00pm

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required							Sample Condition on Receipt		
					PAHs	TPHs	MAHs = BTEX	Metals: <input checked="" type="checkbox"/>	OLP	PCE	ASBESTO		PH ₂ /PH ₃	
CTP 36	Soil Jar, zip, Bag	Zip Bag	0.0m to 0.10m		/	/	/	/	/	/	/	/	/	
QC14			1.0m to 1.10m		/	/	/	/	/	/	/	/	/	
CTP 36		ASS Bag	2.0 to 2.10m		/	/	/	/	/	/	/	/	/	
CTP 36		Zip, zip, Bag	0.0m to 0.10m		/	/	/	/	/	/	/	/	/	
CTP 37		Zip, zip, Bag	0.0m to 0.10m		/	/	/	/	/	/	/	/	/	
CTP 38		ASS	1.6-1.7		/	/	/	/	/	/	/	/	/	
CTP 38			2.5-2.7		/	/	/	/	/	/	/	/	/	
CTP 38			3.5-3.6		/	/	/	/	/	/	/	/	/	
CTP 38			0.0-0.1		/	/	/	/	/	/	/	/	/	
CTP 39			0.5-0.6		/	/	/	/	/	/	/	/	/	
			1.0-1.1		/	/	/	/	/	/	/	/	/	
			1.5-1.6		/	/	/	/	/	/	/	/	/	
			2.2-2.3		/	/	/	/	/	/	/	/	/	
CTP 40			0.0-0.1		/	/	/	/	/	/	/	/	/	
			0.5-0.6		/	/	/	/	/	/	/	/	/	

Special Laboratory Instructions:

Detection Limits:

Turnaround Required:

Copies: WHITE: Sign on release. YELLOW: If dispatched to interstate Lab. Lab to sign on receipt and fax back to Cortey. BLUE: To be returned with results.

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES



Chain of Custody

Laboratory Quotation / Order No:

Job No: EUB0250142 Sheet 5 of 5

No: 27875

Dispatch to:
(Address &
Phone No.)

Sampled by:
CHRIS Appelkamp

Consigning Officer:

Date Dispatched:

9/3/10

Courier Service:

Consignment Note No:

11/3/10 1200pm

Project Manager:
(report results to)

Colin Rutledge

Attention:

Relinquished by:

Date:

Time:

Received by:

Daniel

Date:

Time:

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required				Sample Condition on Receipt
					PAHs	TPHs	MAHs = BTEX	Metals:	
CP40	69. SIC	ASS Bag	1.0-1.1					PAH/PT/PC	
	70		1.5-1.6						
	71		2.2-2.3						
CP44		ASS Bag	0.0-0.1						
CP44A			0.0-0.1						
CP44B			0.0-0.1						
CP44C			0.6-0.8						
CP45			1.2-1.4						
	76		1.6-1.7						
	77		1.0-1.4						
	78		0.65-0.75						
CP41		ASS Bag	1.1-1.2						
CP41			1.8-1.9m						
	81		0.65-0.75						
CP51			1.5-1.6						
	82		0.5-0.6						
	83		0.5-0.6						
CP57			2.4-2.6						
	84		3.1-3.3						
CP66		ASS Bag	1.3-1.4m						
	85								
Special Laboratory Instructions:									
CP56		ASS Bag							
	87								

Detection Limits:

Turnaround Required:

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES



Chain of Custody

Laboratory Quotation / Order No:

Job No: EW002501AB

Sheet 11 of

No: 27870

Dispatch to:
(Address &
Phone No.)

Sampled by: CHRIS APPELkamp
Project Manager:
(report results to) LOLEE QUARE

Consigning Officer:
Date Dispatched:

Attention:

Courier Service:
Consignment Note No:

Relinquished by:

Date:

Time:

Received by: Daryl

Date: 11/3/10

Time: 12:00pm

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyses Required				Sample Condition on Receipt
					PAHs	TPHs	MAHs = BTEX	Metals:	
CTP40	28 Sol	ASS BAG	0.0-0.1m	25/2/10					
CTP40	89	ASS BAG	0.50m to 0.60m						
CTP40	90	ASS BAG	1.0m to 1.10m						
CTP40	91	ASS BAG	1.50m to 1.60m						
CTP40	92	ASS BAG	2.20m to 2.30m						
CTP27		bag Bag-2ip, Bag	0.5 to 0.6m						
CTP28			0.0 to 0.1m						
CTP29			0.0 to 0.10m						
CTP30			0.0 to 0.10m						
CTP14			0.0 to 0.10m						
CTP55		Sac, Bag	0.0-0.1						
CTP56		ASS Bag	0.0-0.1						
CTP56			0.5-0.6						
CTP56			2.5-2.6						
CTP57			0.0-0.1						
CTP57			0.5-1.6						

Special Laboratory Instructions: CTP 82 Zip bag
100 CTP 62

Turnaround Required:
0.0-0.1
0.0-surface

JOB NUMBER MUST BE REFERENCED ON ALL SUBSEQUENT PAGES

Copies: WHITE: Sign on release. YELLOW: If dispatched to Interstate Lab. Lab to sign on receipt and fax back to Coffey. BLUE: To be returned with results.



Chain of Custody

Laboratory Quotation / Order No:

Job No: 100250A B Sheet 1 of 1

No: 21816

Dispatch to: 565 N. W. 11th Ave
(Address & Phone No) 161633 Modbox St, Alexandria

Sampled by: CHRIS APPELWOLF

Consigning Officer: BRUCE WILSON

Date Dispatched: 15/3/10

Attention: SMITH RECEIPT

Project Manager (report results to): Debra Dwyer

Courier Service: MT & Couriers
Consignment Note No: 315424

Relinquished by: L. Kowale Date: 15/3/10 Time: 10:20 AM

Received by: David Date: 15/3/10 Time: 10:20 AM

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyse Required					Sample Condition on Receipt	
					PAHs	TPHs	MAHs = BTEX	Metals:	Other		
CTP 55	Soil	zip bag	0.0m 100.10m	15/3/10	✓	✓	✓	OC P PC P A/B/E	PH/TA	See 76561-20	✓
CTP 56	Soil	zip bag	0.0m 100.10m	15/3/10	✓	✓	✓	OC P PC P A/B/E	PH/TA	See 76561-21	✓
CTP 57	Soil	zip bag	0.0m 100.10m	15/3/10	✓	✓	✓	OC P PC P A/B/E	PH/TA	See 76561-96	✓
CTP 62	Soil	zip bag	0.0m 100.10m	15/3/10	✓	✓	✓	OC P PC P A/B/E	PH/TA	See 76561-97	✓
CTP 48	Soil	zip bag	0.0m 100.10m	15/3/10	✓	✓	✓	OC P PC P A/B/E	PH/TA	See 76561-100	✓
SS 101	Soil	zip bag	0.0m 100.10m	15/3/10	✓	✓	✓	OC P PC P A/B/E	PH/TA	See 76561-15	✓
SS 102	Soil	zip bag	0.0m 100.10m	15/3/10	✓	✓	✓	OC P PC P A/B/E	PH/TA	See 76561-100	✓
CTP 41	Soil	zip bag	0.0m 100.10m	15/3/10	✓	✓	✓	OC P PC P A/B/E	PH/TA	See 76561-100	✓
CTP 44	Soil	zip bag	0.0m 100.10m	15/3/10	✓	✓	✓	OC P PC P A/B/E	PH/TA	See 76561-100	✓
CTP 45	Soil	zip bag	0.0m 100.10m	15/3/10	✓	✓	✓	OC P PC P A/B/E	PH/TA	See 76561-100	✓
CTP 46	Soil	zip bag	0.0m 100.10m	15/3/10	✓	✓	✓	OC P PC P A/B/E	PH/TA	See 76561-100	✓
CTP 75	Soil	zip bag	0.0m 100.10m	15/3/10	✓	✓	✓	OC P PC P A/B/E	PH/TA	See 76561-100	✓

Special Laboratory Instructions: Metals: As, Cd, Cr, Cu, Fe, Ni, Pb, Zn

Detection Limits: As: 0.01, Cd: 0.01, Cr: 0.01, Cu: 0.01, Fe: 0.01, Ni: 0.01, Pb: 0.01, Zn: 0.01

Turnaround Required: 5 Days

Copies: WHITE: Sign on release. YELLOW: If dispatched to Interstate Lab. Lab to sign on receipt and fax back to Coffey. BLUE: To be returned with receipt.

CTP 75 6.5-6.9

Sorry that these samples were left out of the eskies that you should have received today (10/3/10), they made it through the selection process.

I have included a copy of the sample selection COC that you should have received with the eskies.

Regards,

Chris Appelkamp

AU.SampleReceipt.Sydney (Sydney)

From: AU.SampleReceipt.Sydney (Sydney)
Sent: Thursday, 11 March 2010 7:52 PM
To: 'Colee_Quayle@coffey.com'
Cc: 'chris_appelkamp@coffey.com'
Subject: FW: EW00250AB - Issues (Missing and extra samples), SE76561
Importance: High
Attachments: COC_EW00250AB_missing_extra.pdf; COC_EW00250AB.pdf

Hi Colee/Chris,

I have reviewed thoroughly the samples that SGS received and the following applies:-

A separate homogenised portion (~100g) was not supplied for Asbestos analysis for QC9 and QC14.

To meet our NATA requirements we are unable to subsample from the glass jar supplied.

Please confirm if additional sample will be supplied for the samples marked for Asbestos otherwise SGS will be unable to proceed with the request of Asbestos analysis on a NATA endorsed report.

Alternately if additional sample cannot be supplied then SGS is able to subsample from the sample we have at hand however a NON-NATA endorsed report will be issued separately for asbestos analysis.

At this stage I have not placed asbestos testing on either of these two samples QC9 and QC14. If this is to be amended please confirm

Which option of the above is required.

Summary of Ziplock bag portions (for asbestos), Bag portions (for ASS) and glass jar samples (Chemical Analysis) MISSING and not received at SGS are:-

Sample ids for Ziplock bag portions (for asbestos) not received are:-

CTP41_0.0-0.1, QC4_0.0-0.1, CTP41_0.65-0.75, CTP49_0.0-0.1, QC5_0.0-0.1, CTP48_0.0-0.1, QC6_0.0-0.1,
 CTP51_0.0-0.1, CTP51_0.65-0.75, CTP59_0.0-0.1, QC7_0.0-0.1, QC8_0.0-0.1, QC10_0.0-0.1, CTP27_0.0-0.1,
 QC9_0.0-0.1, QC11_0.0-0.1, QC12_0.0-0.1, QC14_0.0-0.1, QC13_0.0-0.1,

Sample ids for Bag portions (for ASS) not received are:-

CTP41_1.8-1.9, CTP36_2.0-2.1, CTP38_1.6-1.7, CTP38_2.5-2.7, CTP38_3.5-3.6, CTP39_0.0-0.1,
 CTP39_0.5-0.6, CTP39_1.0-1.1, CTP39_1.5-1.6, CTP39_2.2-2.3, CTP40_0.0-0.1, CTP40_0.5-0.6,
 CTP40_1.0-1.1, CTP40_1.5-1.6, CTP40_2.2-2.3, CTP44_0.0-0.1, CTP44A_0.0-0.1, CTP44B_0.0-0.1,
 CTP44B_0.6-0.8, CTP44B_1.2-1.4, CTP45_1.6-1.7, CTP45_4.0-4.2, CTP41_0.65-0.75, CTP41_1.1-1.2,
 CTP41_1.8-1.9, CTP66_2.4-2.6, CTP66_3.1-3.3, CTP40_0.0-0.1, CTP40_0.5-0.6, CTP40_1.0-1.1,
 CTP40_1.5-1.6, CTP40_2.2-2.3

Sample ids for Glass jar samples (for chemical analysis) not received are:-

CTP59_0.0-0.1,

Sample id CT31_0.0-0.1 was received with two ziplock bag portions.

Samples indicated for PhF/PHFox testing where samples are missing are:-

CTP41_1.8-1.9, CTP36_2.0-2.1, CTP38_1.6-1.7, CTP38_2.5-2.7, CTP38_3.5-3.6, CTP39_0.0-0.1,
 CTP39_0.5-0.6, CTP39_1.0-1.1, CTP39_1.5-1.6, CTP39_2.2-2.3, CTP40_0.0-0.1, CTP40_0.5-0.6,
 CTP40_1.0-1.1, CTP40_1.5-1.6, CTP40_2.2-2.3, CTP44_0.0-0.1, CTP44A_0.0-0.1, CTP44B_0.0-0.1,
 CTP44B_0.6-0.8, CTP44B_1.2-1.4, CTP45_1.6-1.7, CTP45_4.0-4.2, CTP41_0.65-0.75, CTP41_1.1-1.2,
 CTP41_1.8-1.9, CTP66_2.4-2.6, CTP66_3.1-3.3, CTP40_0.0-0.1, CTP40_0.5-0.6, CTP40_1.0-1.1,
 CTP40_1.5-1.6 AND CTP40_2.2-2.3

Please note these samples cannot be tested/reported for this reason.

Additional samples received not listed on original COC supplied are:-

CTP55_0.0-0.1 (Jar + zip bag), CTP56_0.0-0.1 (ASS bag only), CTP56_0.5-0.6 (ASS bag only), CTP56_2.5-2.6 (ASS bag only), CTP57_0.0-0.1 (ASS bag only), CTP57_1.5-1.6 (ASS bag only), CTP62_0.0-0.1 (zip bag only) and CTP62_0.0-surface (zip bag only)

All these samples have been placed on HOLD.

From: AU.SampleReceipt.Sydney (Sydney)
Sent: Thursday, 11 March 2010 2:20 PM
To: 'Colee_Quayle@coffey.com'
Cc: 'chris_appelkamp@coffey.com'
Subject: EW00250AB - Issues (Missing and extra samples).
Importance: High

Hi Colee/Chris,

I had tried calling to discuss the situation we have with this job but you were both were at the field.

SGS received two eskies yesterday pertaining to job attached.

There is many samples missing and nine additional samples not listed on COC.

Attached is a handwritten summary of the missing samples (in black pen) AND summary of the extra samples (blue pen).

Due to the number of missing samples and extra samples I am in a situation where I cannot process this job unless a replacement COC is issued to remove the missing samples and add the extra samples.

Or confirmation can be made that the missing samples will be arriving at a later date-are in transit?

At present job progression has been halted awaiting feedback.

Kind Regards
Angela Mamalicos
Environmental Services
Sample Administration Manager

SGS Australia Pty Ltd
Unit 16, 33 Maddox St
Alexandria, NSW, 2015
Phone: +61 (0)2 8594 0400
Fax: +61 (0)2 8594 0499
E-mail: au.samplereceipt.sydney@sgs.com
Web: www.au.sgs.com

LABORATORY REPORT COVERSHEET

Date: 7 July 2010

To: Coffey Environments Pty Ltd
118 Auburn St
WOLLONGONG NSW 2500

Attention: Colee Quayle

Your Reference: SE76561A - EW00250AB

Laboratory Report No: CE66993R

Samples Received: 22/03/2010

Samples / Quantity: 5 Soils

The above samples were received intact and analysed according to your written instructions. Unless otherwise stated, solid samples are reported on a dry weight basis and liquid samples as received.



Jon Dicker
Manager
CAIRNS



Shey Goddard
Administration Manager
CAIRNS

CLIENT: Coffey Environments Pty Ltd
PROJECT: SE76561A - EW00250AB

Laboratory Report No: CE66993R

LABORATORY REPORT

Chromium Suite - Acid Base Accounting Our Reference Your Reference Type of Sample Date Sampled	Units	CE66993R-1 CTP39/0.0-0.1 Soil 5/03/2010	CE66993R-2 CTP39/1.0-1.1 Soil 5/03/2010	CE66993R-3 CTP39/2.2-2.3 Soil 5/03/2010
Date Extracted		25/03/2010	25/03/2010	25/03/2010
Date Analysed		25/03/2010	25/03/2010	25/03/2010
Moisture	% w/w	26	19	18
pH KCl	pH Units	4.6	6.6	6.8
s-TAA pH 6.5	% w/w S	0.05	<0.01	<0.01
TAA pH 6.5	mole H ⁺ /t	32	<5	<5
Chromium Reducible Sulfur (SCR)	% w/w	<0.005	<0.005	<0.005
a-Chromium Reducible Sulfur	mole H ⁺ / t	<5	<5	<5
S _{HCl}	% w/w	NA	NA	NA
S _{KCl}	% w/w	NA	NA	NA
S _{NAS}	% w/w	NA	NA	NA
Acid Neutralisation Capacity ANCBT	% CaCO ₃	NA	NA	NA
s-ANCBT	% w/w S	NA	NA	NA
a-ANCBT	mole H ⁺ / t	NA	NA	NA
s-Net Acidity	% w/w S	0.05	<0.01	<0.01
a-Net Acidity	mole H ⁺ /t	33	<5	<5
Liming Rate	kg CaCO ₃ /tonne	2.5	NA	NA
Verification s-Net Acidity	% w/w S	NA	NA	NA
a-Net Acidity without ANC	mole H ⁺ /t	33	<5	<5
Liming Rate without ANC	kg CaCO ₃ /tonne	2.5	NA	NA

CLIENT: Coffey Environments Pty Ltd
PROJECT: SE76561A - EW00250AB

Laboratory Report No: CE66993R

LABORATORY REPORT

Chromium Suite - Acid Base Accounting Our Reference Your Reference Type of Sample Date Sampled	Units	CE66993R-4 CTP45/1.6-1.7 Soil 5/03/2010	CE66993R-5 CTP45/4.0-4.2 Soil 5/03/2010	CE66993R-6 CTP57/0.5-0.6 Soil 5/03/2010
Date Extracted		25/03/2010	25/03/2010	25/03/2010
Date Analysed		25/03/2010	25/03/2010	25/03/2010
Moisture	% w/w	19	43	25
pH KCl	pH Units	4.6	4.5	5.7
s-TAA pH 6.5	% w/w S	0.03	0.15	0.02
TAA pH 6.5	mole H ⁺ /t	17	92	10
Chromium Reducible Sulfur (SCR)	% w/w	<0.005	1.8	0.005
a-Chromium Reducible Sulfur	mole H ⁺ / t	<5	1,100	<5
S _{HCl}	% w/w	NA	NA	NA
S _{KCl}	% w/w	NA	NA	NA
S _{NAS}	% w/w	NA	NA	NA
Acid Neutralisation Capacity ANCBT	% CaCO ₃	NA	NA	NA
s-ANCBT	% w/w S	NA	NA	NA
a-ANCBT	mole H ⁺ / t	NA	NA	NA
s-Net Acidity	% w/w S	0.03	1.9	0.02
a-Net Acidity	mole H ⁺ /t	19	1,200	13
Liming Rate	kg CaCO ₃ /tonne	1.4	89	NA
Verification s-Net Acidity	% w/w S	NA	1.8	NA
a-Net Acidity without ANC	mole H ⁺ /t	19	1,200	13
Liming Rate without ANC	kg CaCO ₃ /tonne	1.4	89	NA

CLIENT: Coffey Environments Pty Ltd
PROJECT: SE76561A - EW00250AB

Laboratory Report No: CE66993R

LABORATORY REPORT

TEST PARAMETERS	UNITS	LOR	METHOD
Chromium Suite - Acid Base Accounting			
Date Extracted			
Date Analysed			
Moisture	% w/w	0.1	AN002
pH KCl	pH Units	0.1	ASSMAC_23A / CEI-401
s-TAA pH 6.5	% w/w S	0.01	ASSMAC_S_23F/CEI-401
TAA pH 6.5	mole H ⁺ /t	5	ASSMAC_23F / CEI-401
Chromium Reducible Sulfur (SCR)	% w/w	0.005	ASSMAC_22B / AN217
a-Chromium Reducible Sulfur	mole H ⁺ / t	5	ASSMAC_22B / AN217
SHCl	% w/w	0.005	AN014
S KCl	% w/w	0.005	ASSMAC_23Ce
S NAS	% w/w	0.005	ASSMAC_20J
Acid Neutralisation Capacity ANCBT	% CaCO ₃	0.1	AN214
s-ANCBT	% w/w S	0.01	AN214
a-ANCBT	mole H ⁺ / t	5	AN214
s-Net Acidity	% w/w S	0.01	Calculation
a-Net Acidity	mole H ⁺ /t	5	Calculation
Liming Rate	kg CaCO ₃ /tonne	0.1	ASSMAC_23H
Verification s-Net Acidity	% w/w S		Calculation
a-Net Acidity without ANC	mole H ⁺ /t	5	Calculation
Liming Rate without ANC	kg CaCO ₃ /tonne	0.1	ASSMAC_23H

CLIENT: Coffey Environments Pty Ltd
PROJECT: SE76561A - EW00250AB

Laboratory Report No: CE66993R

LABORATORY REPORT

QUALITY CONTROL	UNITS	Blank	Duplicate Sm#	Duplicate Sample Duplicate	Spike	CMS Recovery
Date Extracted		25/03/10	CE66993-1	25/03/2010 25/03/2010	Batch Spike	-
Date Analysed		25/03/10	CE66993-1	25/03/2010 25/03/2010	Batch Spike	-
Moisture	% w/w	-	CE66993-1	26 [N/T]	Batch Spike	-
pH KCl	pH Units	6.0	CE66993-1	4.6 4.6 RPD: 0	Batch Spike	-
s-TAA pH 6.5	% w/w S	-	CE66993-1	0.05 0.05 RPD: 0	Batch Spike	-
TAA pH 6.5	mole H ⁺ /t	-	CE66993-1	32 32 RPD: 0	Batch Spike	-
Chromium Reducible Sulfur (SCR)	% w/w	-	CE66993-1	<0.005 <0.005	Batch Spike	110%
a-Chromium Reducible Sulfur	mole H ⁺ / t	-	CE66993-1	<5 <5	Batch Spike	-
S _{HCl}	% w/w	-	CE66993-1	NA NA	Batch Spike	-
S _{KCl}	% w/w	-	CE66993-1	NA NA	Batch Spike	-
S _{NAS}	% w/w	-	CE66993-1	NA NA	Batch Spike	-
Acid Neutralisation Capacity ANCBT	% CaCO ₃	-	CE66993-1	NA NA	Batch Spike	-
s-ANCBT	% w/w S	-	CE66993-1	NA NA	Batch Spike	-
a-ANCBT	mole H ⁺ / t	-	CE66993-1	NA NA	Batch Spike	-
s-Net Acidity	% w/w S	-	CE66993-1	0.05 0.05 RPD: 0	Batch Spike	-
a-Net Acidity	mole H ⁺ /t	-	CE66993-1	33 33 RPD: 0	Batch Spike	-
Liming Rate	kg CaCO ₃ /tonne	-	CE66993-1	2.5 2.5 RPD: 0	Batch Spike	-
Verification s-Net Acidity	% w/w S	-	CE66993-1	NA NA	Batch Spike	-
a-Net Acidity without ANC	mole H ⁺ /t	-	CE66993-1	33 33 RPD: 0	Batch Spike	-
Liming Rate without ANC	kg CaCO ₃ /tonne	-	CE66993-1	2.5 2.5 RPD: 0	Batch Spike	-

CLIENT: Coffey Environments Pty Ltd
PROJECT: SE76561A - EW00250AB

Laboratory Report No: CE66993R

LABORATORY REPORT

NOTES:

LOR - Limit of Reporting.

Liming rate calculated using a Fineness factor of 1.5 (which is equivalent to finely divided Ag Lime <0.5mm) and Neutralising Value (NV) of 100%

If using Liming Material <100% NV, then Liming Rate can be adjusted as follows:

Actual Liming Rate equals Calculated Liming Rate times 100 divided by NV of actual Liming Material

Bulk Density of Material of 1g/cm³ assumed.

If Bulk Density differs from 1g/cm³ then Liming rate can be adjusted as follows:

Actual Liming Rate equals Calculated Liming Rate times Actual Bulk Density

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ISO 17025

Unless otherwise stated the results shown in this test report only refer to the sample(s) tested and such sample(s) are only retained for 60 days only. This document cannot be reproduced except in full, without prior approval of the Company.

Analysis Date: Between 22/03/10 and 26/03/10

Disclaimer:

SGS and the authors have prepared this document in good faith,

consulting with Ahern CR, McElnea AE, Sullivan LA (2004)

Acid Sulphate Soils Laboratory Methods Guidelines,

Queensland Department of Natural Resources, Mines and Energy, Indooroopilly, Qld Aust.

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LABORATORY REPORT COVERSHEET

Date: 26 March 2010

To: Coffey Environments Pty Ltd
118 Auburn St
WOLLONGONG NSW 2500

Attention: Colee Quayle

Your Reference: SE76561A - EW00250AB

Laboratory Report No: CE66993

Samples Received: 22/03/2010

Samples / Quantity: 5 Soils

The above samples were received intact and analysed according to your written instructions. Unless otherwise stated, solid samples are reported on a dry weight basis and liquid samples as received.



Jon Dicker
Manager
CAIRNS



Shey Goddard
Administration Manager
CAIRNS

CLIENT: Coffey Environments Pty Ltd
PROJECT: SE76561A - EW00250AB

Laboratory Report No: CE66993

LABORATORY REPORT

Chromium Suite - Acid Base Accounting Our Reference Your Reference Type of Sample Date Sampled	Units	CE66993-1 CTP39/0.0-0.1 Soil 5/03/2010	CE66993-2 CTP39/1.0-1.1 Soil 5/03/2010	CE66993-3 CTP39/2.2-2.3 Soil 5/03/2010
Date Extracted		25/03/2010	25/03/2010	25/03/2010
Date Analysed		25/03/2010	25/03/2010	25/03/2010
Moisture	% w/w	26	19	18
pH KCl	pH Units	4.6	6.6	6.8
s-TAA pH 6.5	% w/w S	0.05	<0.01	<0.01
TAA pH 6.5	mole H ⁺ /t	32	<5	<5
Chromium Reducible Sulfur (SCR)	% w/w	<0.005	<0.005	<0.005
a-Chromium Reducible Sulfur	mole H ⁺ / t	<5	<5	<5
S _{HCl}	% w/w	NA	NA	NA
S _{KCl}	% w/w	NA	NA	NA
S _{NAS}	% w/w	NA	NA	NA
Acid Neutralisation Capacity ANCBT	% CaCO ₃	NA	NA	NA
s-ANCBT	% w/w S	NA	NA	NA
a-ANCBT	mole H ⁺ / t	NA	NA	NA
s-Net Acidity	% w/w S	0.05	<0.01	<0.01
a-Net Acidity	mole H ⁺ /t	33	<5	<5
Liming Rate	kg CaCO ₃ /tonne	2.5	NA	NA
Verification s-Net Acidity	% w/w S	NA	NA	NA
a-Net Acidity without ANC	mole H ⁺ /t	33	<5	<5
Liming Rate without ANC	kg CaCO ₃ /tonne	2.5	NA	NA

CLIENT: Coffey Environments Pty Ltd
PROJECT: SE76561A - EW00250AB

Laboratory Report No: CE66993

LABORATORY REPORT

Chromium Suite - Acid Base Accounting Our Reference Your Reference Type of Sample Date Sampled	Units	CE66993-4 CTP45/1.6-1.7 Soil 5/03/2010	CE66993-5 CTP45/4.0-4.2 Soil 5/03/2010	CE66993-6 CTP45/0.5-0.6 Soil 5/03/2010
Date Extracted		25/03/2010	25/03/2010	25/03/2010
Date Analysed		25/03/2010	25/03/2010	25/03/2010
Moisture	% w/w	19	43	25
pH KCl	pH Units	4.6	4.5	5.7
s-TAA pH 6.5	% w/w S	0.03	0.15	0.02
TAA pH 6.5	mole H ⁺ /t	17	92	10
Chromium Reducible Sulfur (SCR)	% w/w	<0.005	1.8	0.005
a-Chromium Reducible Sulfur	mole H ⁺ / t	<5	1,100	<5
S _{HCl}	% w/w	NA	NA	NA
S _{KCl}	% w/w	NA	NA	NA
S _{NAS}	% w/w	NA	NA	NA
Acid Neutralisation Capacity ANCBT	% CaCO ₃	NA	NA	NA
s-ANCBT	% w/w S	NA	NA	NA
a-ANCBT	mole H ⁺ / t	NA	NA	NA
s-Net Acidity	% w/w S	0.03	1.9	0.02
a-Net Acidity	mole H ⁺ /t	19	1,200	13
Liming Rate	kg CaCO ₃ /tonne	1.4	89	NA
Verification s-Net Acidity	% w/w S	NA	1.8	NA
a-Net Acidity without ANC	mole H ⁺ /t	19	1,200	13
Liming Rate without ANC	kg CaCO ₃ /tonne	1.4	89	NA

CLIENT: Coffey Environments Pty Ltd
PROJECT: SE76561A - EW00250AB

Laboratory Report No: CE66993

LABORATORY REPORT

TEST PARAMETERS	UNITS	LOR	METHOD
Chromium Suite - Acid Base Accounting			
Date Extracted			
Date Analysed			
Moisture	% w/w	0.1	AN002
pH KCl	pH Units	0.1	ASSMAC_23A / CEI-401
s-TAA pH 6.5	% w/w S	0.01	ASSMAC_S_23F/CEI-401
TAA pH 6.5	mole H ⁺ /t	5	ASSMAC_23F / CEI-401
Chromium Reducible Sulfur (SCR)	% w/w	0.005	ASSMAC_22B / AN217
a-Chromium Reducible Sulfur	mole H ⁺ / t	5	ASSMAC_22B / AN217
SHCl	% w/w	0.005	ASSMAC_20B
S KCl	% w/w	0.005	ASSMAC_23Ce
S NAS	% w/w	0.005	ASSMAC_20J
Acid Neutralisation Capacity ANC _{BT}	% CaCO ₃	0.1	ASSMAC_19A1/AN214
s-ANC _{BT}	% w/w S	0.01	ASSMAC_19A1/AN214
a-ANC _{BT}	mole H ⁺ / t	5	ASSMAC_19A1/AN214
s-Net Acidity	% w/w S	0.01	Calculation
a-Net Acidity	mole H ⁺ /t	5	Calculation
Liming Rate	kg CaCO ₃ /tonne	0.1	ASSMAC_23H
Verification s-Net Acidity	% w/w S		Calculation
a-Net Acidity without ANC	mole H ⁺ /t	5	Calculation
Liming Rate without ANC	kg CaCO ₃ /tonne	0.1	ASSMAC_23H

CLIENT: Coffey Environments Pty Ltd
PROJECT: SE76561A - EW00250AB

Laboratory Report No: CE66993

LABORATORY REPORT

QUALITY CONTROL	UNITS	Blank	Duplicate Sm#	Duplicate Sample Duplicate	Spike	CMS Recovery
Date Extracted		25/03/10	CE66993-1	25/03/2010 25/03/2010	Batch Spike	-
Date Analysed		25/03/10	CE66993-1	25/03/2010 25/03/2010	Batch Spike	-
Moisture	% w/w	-	CE66993-1	26 [N/T]	Batch Spike	-
pH KCl	pH Units	6.0	CE66993-1	4.6 4.6 RPD: 0	Batch Spike	-
s-TAA pH 6.5	% w/w S	-	CE66993-1	0.05 0.05 RPD: 0	Batch Spike	-
TAA pH 6.5	mole H ⁺ /t	-	CE66993-1	32 32 RPD: 0	Batch Spike	-
Chromium Reducible Sulfur (SCR)	% w/w	-	CE66993-1	<0.005 <0.005	Batch Spike	110%
a-Chromium Reducible Sulfur	mole H ⁺ / t	-	CE66993-1	<5 <5	Batch Spike	-
S _{HCl}	% w/w	-	CE66993-1	NA NA	Batch Spike	-
S _{KCl}	% w/w	-	CE66993-1	NA NA	Batch Spike	-
S _{NAS}	% w/w	-	CE66993-1	NA NA	Batch Spike	-
Acid Neutralisation Capacity ANCBT	% CaCO ₃	-	CE66993-1	NA NA	Batch Spike	-
s-ANCBT	% w/w S	-	CE66993-1	NA NA	Batch Spike	-
a-ANCBT	mole H ⁺ / t	-	CE66993-1	NA NA	Batch Spike	-
s-Net Acidity	% w/w S	-	CE66993-1	0.05 0.05 RPD: 0	Batch Spike	-
a-Net Acidity	mole H ⁺ /t	-	CE66993-1	33 33 RPD: 0	Batch Spike	-
Liming Rate	kg CaCO ₃ /tonne	-	CE66993-1	2.5 2.5 RPD: 0	Batch Spike	-
Verification s-Net Acidity	% w/w S	-	CE66993-1	NA NA	Batch Spike	-
a-Net Acidity without ANC	mole H ⁺ /t	-	CE66993-1	33 33 RPD: 0	Batch Spike	-
Liming Rate without ANC	kg CaCO ₃ /tonne	-	CE66993-1	2.5 2.5 RPD: 0	Batch Spike	-

CLIENT: Coffey Environments Pty Ltd
PROJECT: SE76561A - EW00250AB

Laboratory Report No: CE66993

LABORATORY REPORT

NOTES:

LOR - Limit of Reporting.

Liming rate calculated using a Fineness factor of 1.5 (which is equivalent to finely divided Ag Lime <0.5mm) and Neutralising Value (NV) of 100%

If using Liming Material <100% NV, then Liming Rate can be adjusted as follows:

Actual Liming Rate equals Calculated Liming Rate times 100 divided by NV of actual Liming Material

Bulk Density of Material of 1g/cm³ assumed.

If Bulk Density differs from 1g/cm³ then Liming rate can be adjusted as follows:

Actual Liming Rate equals Calculated Liming Rate times Actual Bulk Density

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ISO 17025

Unless otherwise stated the results shown in this test report only refer to the sample(s) tested and such sample(s) are only retained for 60 days only. This document cannot be reproduced except in full, without prior approval of the Company.

Analysis Date: Between 22/03/10 and 26/03/10

Disclaimer:

SGS and the authors have prepared this document in good faith,

consulting with Ahern CR, McElnea AE, Sullivan LA (2004)

Acid Sulphate Soils Laboratory Methods Guidelines,

Queensland Department of Natural Resources, Mines and Energy, Indooroopilly, Qld Aust.

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AU.SampleReceipt.Sydney (Sydney)

From: Colee Quayle [Colee_Quayle@coffey.com]
Sent: Friday, 19 March 2010 2:02 PM
To: AU.SampleReceipt.Sydney (Sydney)
Subject: Additional analysis batch 76561
Importance: High

Hi

Would you please arrange for the following samples to be tested for the chromium reducible sulphur suite:

- 62. CTP39/0.0-0.1 *513*
- 64. CTP39/1.0-1.1 *513*
- 66. CTP39/2.2-2.3 *513*
- 77. CTP45/1.6-1.7
- 78. CTP45/4.0-4.2
- 84. CTP57/0.5-0.6

*SSS Ref: SE 76561A
 Date Rec: 26/3/10
 TAT: STANDARD*

We would like results in 5 days. Thank you.

Regards

COLEE QUAYLE
 Senior Environmental Scientist

Coffey Environments
 118 Auburn Street Wollongong NSW 2500 Australia
 T +61 2 4201 1400 F +61 2 4201 1401 M +61 403 242 431
coffey.com



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CILDISCL0005

ANALYTICAL REPORT

19 March 2010

Coffey Environments Pty Ltd

118 Auburn Street
Wollongong
NSW 2500

Attention: Colee Quayle

Your Reference: EW00250AB

Our Reference: SE76607

Samples: 8 Soils

Received: 15/03/2010

Preliminary Report Sent: Not Issued

These samples were analysed in accordance with your written instructions.

For and on Behalf of:

SGS ENVIRONMENTAL SERVICES

Client Services: Simon Matthews

Simon.Matthews@sgs.com

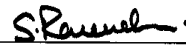
Sample Receipt: Angela Mamalicos

AU.SampleReceipt.Sydney@sgs.com

Laboratory Manager: Edward Ibrahim

Edward.Ibrahim@sgs.com

Results Approved and/or Authorised by:



Ravee Sivasubramaniam
Asbestos Signatory



Ly Kim Ha
Organics Signatory



Huong Crawford
Metals Signatory



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Page 1 of 12

PAHs in Soil Our Reference:	UNITS	SE76607-9	SE76607-1 0
Your Reference	-----	SS101	SS102
Sample Matrix	-----	Soil	Soil
Date Sampled		11/03/2010	11/03/2010
Depth		0.0-0.1	0.0-0.1
Previous SGS ref		-	-
Date Extracted		17/03/2010	17/03/2010
Date Analysed		17/03/2010	17/03/2010
Naphthalene	mg/kg	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	<0.10
Anthracene	mg/kg	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	<0.10
Pyrene	mg/kg	<0.10	<0.10
Benzo[a]anthracene	mg/kg	<0.10	<0.10
Chrysene	mg/kg	<0.10	<0.10
Benzo[b,k]fluoranthene	mg/kg	<0.20	<0.20
Benzo[a]pyrene	mg/kg	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.10	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10	<0.10
Benzo[ghi]perylene	mg/kg	<0.10	<0.10
Total PAHs (sum)	mg/kg	<1.7	<1.7
Nitrobenzene-d5	%	85	90
2-Fluorobiphenyl	%	75	77
<i>p</i> -Terphenyl- <i>d</i> 14	%	85	83



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OC Pesticides in Soil Our Reference:	UNITS	SE76607-9	SE76607-1 0
Your Reference	-----	SS101	SS102
Sample Matrix	-----	Soil	Soil
Date Sampled		11/03/2010	11/03/2010
Depth		0.0-0.1	0.0-0.1
Previous SGS ref		-	-
Date Extracted		17/03/2010	17/03/2010
Date Analysed		17/03/2010	17/03/2010
HCB	mg/kg	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1
<i>delta</i> -BHC	mg/kg	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1
<i>trans</i> -Chlordane	mg/kg	<0.1	<0.1
<i>cis</i> -Chlordane	mg/kg	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1
<i>p,p</i> -DDT	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Endrin Ketone	mg/kg	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	117	118



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Metals in Soil by ICP-OES			
Our Reference:	UNITS	SE76607-9	SE76607-1 0
Your Reference	-----	SS101	SS102
Sample Matrix	-----	Soil	Soil
Date Sampled		11/03/2010	11/03/2010
Depth		0.0-0.1	0.0-0.1
Previous SGS ref		-	-
Date Extracted (Metals)		19/03/2010	19/03/2010
Date Analysed (Metals)		19/03/2010	19/03/2010
Arsenic	mg/kg	5	4
Cadmium	mg/kg	0.4	0.4
Chromium	mg/kg	20	17
Copper	mg/kg	28	23
Lead	mg/kg	20	15
Nickel	mg/kg	7.0	5.5
Zinc	mg/kg	160	49



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Mercury Cold Vapor/Hg Analyser			
Our Reference:	UNITS	SE76607-9	SE76607-1 0
Your Reference	-----	SS101	SS102
Sample Matrix	-----	Soil	Soil
Date Sampled		11/03/2010	11/03/2010
Depth		0.0-0.1	0.0-0.1
Previous SGS ref		-	-
Date Extracted (Mercury)		19/03/2010	19/03/2010
Date Analysed (Mercury)		19/03/2010	19/03/2010
Mercury	mg/kg	<0.05	<0.05



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Asbestos ID in soil Our Reference:	UNITS	SE76607-9	SE76607-1 0
Your Reference	-----	SS101	SS102
Sample Matrix	-----	Soil	Soil
Date Sampled		11/03/2010	11/03/2010
Depth		0.0-0.1	0.0-0.1
Previous SGS ref		-	-
Date Analysed		18/03/2010	18/03/2010
Sample Description		23g soil,rocks	20g soil,rocks
Asbestos ID in soil	-	No asbestos detected	No asbestos detected



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Moisture			
Our Reference:	UNITS	SE76607-9	SE76607-1 0
Your Reference	-----	SS101	SS102
Sample Matrix	-----	Soil	Soil
Date Sampled		11/03/2010	11/03/2010
Depth		0.0-0.1	0.0-0.1
Previous SGS ref		-	-
Date Analysed (moisture)		17/03/2010	17/03/2010
Moisture	%	8	7



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Method ID	Methodology Summary
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEO-005	OC/OP/PCB - Determination of a suite of Organochlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
AN602	Analysed using in house method AN602 - Qualitative identification of Asbestos Fibres, Synthetic Mineral Fibres and Organic Fibres in bulk samples (including building materials and soils) using Polarised Light Microscopy and Dispersion Staining Techniques. Our NATA Accreditation does not currently cover the identification of Synthetic Mineral Fibres and Organic Fibres, however, according to new NATA requirements, the reporting of these fibres is compulsory if detected.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C.



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PAHs in Soil								
Date Extracted				17/03/2010	[NT]	[NT]	LCS	17/03/2010
Date Analysed				17/03/2010	[NT]	[NT]	LCS	17/03/2010
Naphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	69%
2-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
1-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	74%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	82%
Fluorene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	70%
Anthracene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	78%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	77%
Pyrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	79%
Benzo[a]anthracene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Benzo[b,k]fluoranthene	mg/kg	0.2	SEO-030	<0.20	[NT]	[NT]	[NR]	[NR]
Benzo[a]pyrene	mg/kg	0.05	SEO-030	<0.05	[NT]	[NT]	LCS	83%
Indeno[123-cd]pyrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Dibenzo[ah]anthracene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Benzo[ghi]perylene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.75	SEO-030	<1.7	[NT]	[NT]	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	91	[NT]	[NT]	LCS	89%
2-Fluorobiphenyl	%	0	SEO-030	81	[NT]	[NT]	LCS	78%
<i>p</i> -Terphenyl-d14	%	0	SEO-030	89	[NT]	[NT]	LCS	86%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OC Pesticides in Soil								
Date Extracted				17/03/2010	[NT]	[NT]	LCS	17/03/2010
Date Analysed				17/03/2010	[NT]	[NT]	LCS	17/03/2010
HCB	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>alpha</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
gamma-BHC (Lindane)	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Heptachlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	105%
Aldrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	102%
<i>beta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>delta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	110%
Heptachlor Epoxide	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>o,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>alpha</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>trans</i> -Chlordane	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>cis</i> -Chlordane	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>trans</i> -Nonachlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Dieldrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	91%
Endrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	103%
<i>o,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>o,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>beta</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	98%
Endosulfan Sulphate	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Methoxychlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Ketone	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	0	SEO-005	97	[NT]	[NT]	LCS	95%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Metals in Soil by ICP-OES								
Date Extracted (Metals)				19/03/2010	[NT]	[NT]	LCS	19/03/2010
Date Analysed (Metals)				19/03/2010	[NT]	[NT]	LCS	19/03/2010
Arsenic	mg/kg	3	SEM-010	<3	[NT]	[NT]	LCS	97%
Cadmium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	98%
Chromium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	99%
Copper	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	98%
Lead	mg/kg	1	SEM-010	<1	[NT]	[NT]	LCS	99%
Nickel	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	98%
Zinc	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	96%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Mercury Cold Vapor/Hg Analyser								
Date Extracted (Mercury)				19/03/2010	[NT]	[NT]	LCS	19/03/2010
Date Analysed (Mercury)				19/03/2010	[NT]	[NT]	LCS	19/03/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	[NT]	[NT]	LCS	92%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Asbestos ID in soil				
Date Analysed				[NT]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Hold sample- NO test required				
Sample on HOLD		[NT]		[NT]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Moisture				
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1



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Result Codes

[INS]	: Insufficient Sample for this test	[RPD]	: Relative Percentage Difference
[NR]	: Not Requested	*	: Not part of NATA Accreditation
[NT]	: Not tested	[N/A]	: Not Applicable

Report Comments

Sampled by the client

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy.

This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

No respirable fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)

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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>



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Client Details

Requested By : **Colee Quayle**
Client : Coffey Environments Pty Ltd
Contact : Colee Quayle
Address : 118 Auburn Street
Wollongong NSW 2500

Email : Colee_Quayle@coffey.com
Telephone : 02 4201 1400
Facsimile : 02 4201 1401

Project : EW00250AB
Order Number : 27876
Samples : 8 Soils

Laboratory Details

Laboratory : SGS Environmental Services
Manager : Edward Ibrahim
Address : Unit 16, 33 Maddox Street
Alexandria NSW 2015

Email : au.samplereceipt.sydney@sgs.com
Telephone : 61 2 8594 0400
Facsimile : 61 2 8594 0499

Report No : **SE76607**
No. of Samples : 22
Due Date : 19/03/2010

Date Instructions Received : 15/03/2010
Sample Receipt Date : 15/03/2010

Samples received in good order	: NO	Samples received in correct container:	YES
Samples received without headspace	: YES	Sufficient quantity supplied	: YES
Upon receipt sample temperature	: Cool	Cooling Method	: Ice Pack
Sample containers provided by	: Customer	Samples clearly Labelled	: NO
Turnaround time requested	: Standard	Completed documentation received	: YES

Samples will be held for 1 month for water samples and 3 months for soil samples from date of receipt of samples, unless otherwise instructed.

Comments

Two samples not received at SGS. CTP57_1.0-1.2 and CTP75_6.7-6.8. (SE76607-19 & SE76607-22).

Two additional samples received not listed on COC supplied. CTP48_0-0.1 (Fibro piece) and CTP75_6.5-6.9 (ziplock bag only). Both samples placed on HOLD.

CTP57_1.5-1.6 received on bag labelled as CTP57_1.0-1.2. Other sample ids stated on COC refer to SGS report SE76561.

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.

The signed chain of custody will be returned to you with the original report.

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : EW00250AB

Report No : SE76607

Summary of Samples and Requested Analysis

The table below represents SGS Environmental Service's understanding and interpretation of the customer supplied sample request.

Please indicate ASAP if your request differs from these details.

Testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

Note that a small X in the table below indicates some testing has not been requested in the package.

Sample No.	Description	Metals Prep, soil 8 HM	PAHs in Soil	OC Pesticides in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Hold sample-NO test required	Moisture
5	CTP57_1.5-1.6m							X	
9	SS101	X	X	X	X	X	X		X
10	SS102	X	X	X	X	X	X		X
16	CTP75_5.0-5.1m							X	
17	CTP75_4.65-4.75m							X	
18	CTP75_6.3-6.4m							X	
20	CTP48_0.0-0.1m							X	
21	CTP75_6.5-6.9m							X	

Sample No.	Description
5	CTP57_1.5-1.6m
9	SS101
10	SS102
16	CTP75_5.0-5.1m
17	CTP75_4.65-4.75m



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
Project : EW00250AB

Report No : SE76607

Sample No.	Description
18	CTP75_6.3-6.4m
20	CTP48_0.0-0.1m
21	CTP75_6.5-6.9m



Chain of Custody

Laboratory Quotation / Order No.

Job No. FUD0250AB

Sheet

of

No: 27876

Dispatch to: 565 ENVIRONMENTAL
(Address & Phone No.) 1616/33 Maddox St, Alexandria.

NOTE: include with previous COC for job # these samples.

Attention: SAMPLE RECEIPT

Project Manager: Chris Apperamp
(report results to)

Consigning Officer: M & Couriers
Date Dispatched: 15/3/10

Courier Service: M & Couriers
Consignment Note No: 315424

Relinquished by: L. Bourke Date: 15/3/10 Time: 9:00 Received by: Daniel Date: 15/3/10 Time: 10:20 AM

Comments	Sample Matrix	Container Type and Preservative	Sample No.	Date Sampled	Analyse Required					Sample Condition on Receipt
					PAHs	TPHs	MAHs = BTEX	Metals	PH/ox	
CTP 55	soil	zip bag	0.0M to 0.10M	3/3/10						
CTP 56	soil	zip bag	0.0M to 0.10M	3/3/10						
CTP 57	"	"	0.0M to 0.10M	3/3/10						
CTP 62	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 48	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 41	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 45	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 44B	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 41	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 45	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 44B	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 41	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 45	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 44B	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 41	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 45	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 44B	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 41	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 45	"	zip bag	0.0M to 0.10M	3/3/10						
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CTP 44B	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 41	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 45	"	zip bag	0.0M to 0.10M	3/3/10						
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CTP 44B	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 41	"	zip bag	0.0M to 0.10M	3/3/10						
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CTP 44B	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 41	"	zip bag	0.0M to 0.10M	3/3/10						
CTP 45	"									

ANALYTICAL REPORT

18 June 2010

Coffey Environments Pty Ltd

118 Auburn Street
Wollongong
NSW 2500

Attention: Colee Quayle

Your Reference: ENVIWOLL00250AB

Our Reference: SE78952

Samples: 10 Soils, 2 Material
Received: 9/6/10

Preliminary Report Sent: Not Issued


These samples were analysed in accordance with your written instructions.

For and on Behalf of:

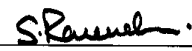
SGS ENVIRONMENTAL SERVICES

Sample Receipt: Angela Mamalicos AU.SampleReceipt.Sydney@sgs.com
Production Manager: Huong Crawford Huong.Crawford@sgs.com

Results Approved and/or Authorised by:


Ly Kim Ha
Organics Signatory


Huong Crawford
Metals Signatory


Ravee Sivasubramaniam
Asbestos Signatory



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BTEX in Soil						
Our Reference:	UNITS	SE78952-1	SE78952-2	SE78952-5	SE78952-6	SE78952-7
Your Reference	-----	CTP47_0.0-0.1	QC1000_0.0-0.1	CTP51_0.0-0.1	QC2000_0.0-0.1	CTP66_0.0-0.1
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		7/06/2010	7/06/2010	7/06/2010	7/06/2010	7/06/2010
Depth		0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Extracted (BTEX)		15/06/2010	15/06/2010	15/06/2010	15/06/2010	15/06/2010
Date Analysed (BTEX)		15/06/2010	15/06/2010	15/06/2010	15/06/2010	15/06/2010
Benzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3	<0.3	<0.3	<0.3
BTEX Surrogate (%)	%	64	91	77	79	84

BTEX in Soil		
Our Reference:	UNITS	SE78952-8
Your Reference	-----	CTP62_0.0-0.1 (Soil)
Sample Matrix	-----	Soil
Date Sampled		7/06/2010
Depth		0.0-0.1
Date Extracted (BTEX)		15/06/2010
Date Analysed (BTEX)		15/06/2010
Benzene	mg/kg	<0.1
Toluene	mg/kg	<0.1
Ethylbenzene	mg/kg	<0.1
Total Xylenes	mg/kg	<0.3
BTEX Surrogate (%)	%	63

TRH in soil with..C6-C9 by P/T Our Reference: Your Reference	UNITS -----	SE78952-1 CTP47_0.0- 0.1	SE78952-2 QC1000_0. 0-0.1	SE78952-5 CTP51_0.0- 0.1	SE78952-6 QC2000_0. 0-0.1	SE78952-7 CTP66_0.0- 0.1
Sample Matrix Date Sampled Depth	-----	Soil 7/06/2010 0.0-0.1	Soil 7/06/2010 0.0-0.1	Soil 7/06/2010 0.0-0.1	Soil 7/06/2010 0.0-0.1	Soil 7/06/2010 0.0-0.1
Date Extracted (TRH C6-C9 PT)		15/06/2010	15/06/2010	15/06/2010	15/06/2010	15/06/2010
Date Analysed (TRH C6-C9 PT)		15/06/2010	15/06/2010	15/06/2010	15/06/2010	15/06/2010
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20	<20	<20	<20
Date Extracted (TRH C10-C36)		15/06/2010	15/06/2010	15/06/2010	15/06/2010	15/06/2010
Date Analysed (TRH C10-C36)		15/06/2010	15/06/2010	15/06/2010	15/06/2010	15/06/2010
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20	<20	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50	<50	<50	<50
TRH C ₂₉ - C ₃₆	mg/kg	<50	<50	<50	<50	<50

TRH in soil with..C6-C9 by P/T Our Reference: Your Reference	UNITS -----	SE78952-8 CTP62_0.0- 0.1 (Soil)
Sample Matrix Date Sampled Depth	-----	Soil 7/06/2010 0.0-0.1
Date Extracted (TRH C6-C9 PT)		15/06/2010
Date Analysed (TRH C6-C9 PT)		15/06/2010
TRH C ₆ - C ₉ P&T	mg/kg	<20
Date Extracted (TRH C10-C36)		15/06/2010
Date Analysed (TRH C10-C36)		15/06/2010
TRH C ₁₀ - C ₁₄	mg/kg	66
TRH C ₁₅ - C ₂₈	mg/kg	150
TRH C ₂₉ - C ₃₆	mg/kg	<50



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WORLD RECOGNISED
ACCREDITATION

SGS Australia Pty Ltd
ABN 44 000 964 278

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Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f +61 (0)2 8594 0499 www.au.sgs.com

PAHs in Soil Our Reference: Your Reference	UNITS -----	SE78952-1 CTP47_0.0- 0.1	SE78952-2 QC1000_0. 0-0.1	SE78952-5 CTP51_0.0- 0.1	SE78952-6 QC2000_0. 0-0.1	SE78952-7 CTP66_0.0- 0.1
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled Depth		7/06/2010 0.0-0.1	7/06/2010 0.0-0.1	7/06/2010 0.0-0.1	7/06/2010 0.0-0.1	7/06/2010 0.0-0.1
Date Extracted		15/06/2010	15/06/2010	15/06/2010	15/06/2010	15/06/2010
Date Analysed		15/06/2010	15/06/2010	15/06/2010	15/06/2010	15/06/2010
Naphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[a]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Chrysene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[b,k]fluoranthene	mg/kg	<0.20	<0.20	<0.20	<0.20	<0.20
Benzo[a]pyrene	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Benzo[ghi]perylene	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10
Total PAHs (sum)	mg/kg	<1.7	<1.7	<1.7	<1.7	<1.7
Nitrobenzene-d5	%	118	119	125	112	107
2-Fluorobiphenyl	%	113	112	118	102	101
<i>p</i> -Terphenyl-d14	%	120	122	126	117	113



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PAHs in Soil Our Reference:	UNITS	SE78952-8	SE78952-1 0	SE78952-1 1
Your Reference	-----	CTP62_0.0- 0.1 (Soil)	CTP65_0.0- 0.1	CTP60_0.0- 0.1
Sample Matrix	-----	Soil	Soil	Soil
Date Sampled		7/06/2010	7/06/2010	7/06/2010
Depth		0.0-0.1	0.0-0.1	0.0-0.1
Date Extracted		15/06/2010	15/06/2010	15/06/2010
Date Analysed		15/06/2010	15/06/2010	15/06/2010
Naphthalene	mg/kg	0.48	<0.10	<0.10
2-Methylnaphthalene	mg/kg	2.5	<0.10	<0.10
1-Methylnaphthalene	mg/kg	1.2	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10	<0.10
Phenanthrene	mg/kg	1.8	<0.10	<0.10
Anthracene	mg/kg	<0.10	<0.10	<0.10
Fluoranthene	mg/kg	0.13	<0.10	<0.10
Pyrene	mg/kg	0.18	<0.10	<0.10
Benzo[a]anthracene	mg/kg	0.11	<0.10	<0.10
Chrysene	mg/kg	0.46	<0.10	<0.10
Benzo[b,k]fluoranthene	mg/kg	0.20	<0.20	<0.20
Benzo[a]pyrene	mg/kg	0.06	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.10	<0.10	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10	<0.10	<0.10
Benzo[ghi]perylene	mg/kg	<0.10	<0.10	<0.10
Total PAHs (sum)	mg/kg	<7.86	<1.7	<1.7
Nitrobenzene-d5	%	111	115	110
2-Fluorobiphenyl	%	103	111	102
<i>p</i> -Terphenyl-d14	%	110	122	114



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OC Pesticides in Soil Our Reference: Your Reference	UNITS -----	SE78952-1 CTP47_0.0- 0.1	SE78952-2 QC1000_0. 0-0.1	SE78952-4 CTP48_0.0- 0.1(Soil)	SE78952-5 CTP51_0.0- 0.1	SE78952-6 QC2000_0. 0-0.1
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		7/06/2010	7/06/2010	7/06/2010	7/06/2010	7/06/2010
Depth		0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Extracted		15/06/2010	15/06/2010	15/06/2010	15/06/2010	15/06/2010
Date Analysed		15/06/2010	15/06/2010	15/06/2010	15/06/2010	15/06/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>delta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Chlordane (<i>gamma</i>)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>cis</i> -Chlordane (<i>alpha</i>)	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	11	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	111	111	117	119	113



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OC Pesticides in Soil Our Reference:	UNITS	SE78952-7	SE78952-8	SE78952-1 0	SE78952-1 2
Your Reference	-----	CTP66_0.0- 0.1	CTP62_0.0- 0.1 (Soil)	CTP65_0.0- 0.1	CTP50_0.0- 0.1
Sample Matrix	-----	Soil	Soil	Soil	Soil
Date Sampled		7/06/2010	7/06/2010	7/06/2010	7/06/2010
Depth		0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Extracted		15/06/2010	15/06/2010	15/06/2010	15/06/2010
Date Analysed		15/06/2010	15/06/2010	15/06/2010	15/06/2010
HCB	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>delta</i> -BHC	mg/kg	<0.1	<0.1	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Chlordane (<i>gamma</i>)	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>cis</i> -Chlordane (<i>alpha</i>)	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1	<0.1	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1	<0.1	<0.1
<i>p,p</i> -DDT	mg/kg	<0.1	<0.1	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1	<0.1	<0.1
Endrin Ketone	mg/kg	<0.1	<0.1	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	115	101	113	118



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PCBs in Soil Our Reference: Your Reference	UNITS -----	SE78952-1 CTP47_0.0- 0.1	SE78952-2 QC1000_0. 0-0.1	SE78952-5 CTP51_0.0- 0.1	SE78952-6 QC2000_0. 0-0.1	SE78952-7 CTP66_0.0- 0.1
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		7/06/2010	7/06/2010	7/06/2010	7/06/2010	7/06/2010
Depth		0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Extracted		15/06/2010	15/06/2010	15/06/2010	15/06/2010	15/06/2010
Date Analysed		15/06/2010	15/06/2010	15/06/2010	15/06/2010	15/06/2010
Arochlor 1016	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1262	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90	<0.90	<0.90	<0.90
PCB_Surrogate 1	%	111	111	119	113	115

PCBs in Soil Our Reference: Your Reference	UNITS -----	SE78952-8 CTP62_0.0- 0.1 (Soil)	SE78952-1 0 CTP65_0.0- 0.1
Sample Matrix	-----	Soil	Soil
Date Sampled		7/06/2010	7/06/2010
Depth		0.0-0.1	0.0-0.1
Date Extracted		15/06/2010	15/06/2010
Date Analysed		15/06/2010	15/06/2010
Arochlor 1016	mg/kg	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1
Arochlor 1262	mg/kg	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90
PCB_Surrogate 1	%	101	113



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Metals in Soil by ICP-OES Our Reference: Your Reference	UNITS -----	SE78952-1 CTP47_0.0- 0.1	SE78952-2 QC1000_0. 0-0.1	SE78952-4 CTP48_0.0- 0.1(Soil)	SE78952-5 CTP51_0.0- 0.1	SE78952-6 QC2000_0. 0-0.1
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		7/06/2010	7/06/2010	7/06/2010	7/06/2010	7/06/2010
Depth		0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Extracted (Metals)		18/06/2010	18/06/2010	18/06/2010	18/06/2010	18/06/2010
Date Analysed (Metals)		18/06/2010	18/06/2010	18/06/2010	18/06/2010	18/06/2010
Arsenic	mg/kg	4	3	7	4	<3
Cadmium	mg/kg	0.4	0.3	1.4	0.4	0.4
Chromium	mg/kg	18	27	21	18	20
Copper	mg/kg	7.8	13	55	16	17
Lead	mg/kg	16	13	380	12	11
Nickel	mg/kg	2.2	3.0	7.4	4.5	4.8
Zinc	mg/kg	22	21	740	26	26

Metals in Soil by ICP-OES Our Reference: Your Reference	UNITS -----	SE78952-7 CTP66_0.0- 0.1	SE78952-8 CTP62_0.0- 0.1 (Soil)	SE78952-1 0 CTP65_0.0- 0.1	SE78952-1 1 CTP60_0.0- 0.1	SE78952-1 2 CTP50_0.0- 0.1
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		7/06/2010	7/06/2010	7/06/2010	7/06/2010	7/06/2010
Depth		0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Extracted (Metals)		18/06/2010	18/06/2010	18/06/2010	18/06/2010	18/06/2010
Date Analysed (Metals)		18/06/2010	18/06/2010	18/06/2010	18/06/2010	18/06/2010
Arsenic	mg/kg	4	14	<3	<3	<3
Cadmium	mg/kg	<0.3	1.1	0.3	0.5	0.5
Chromium	mg/kg	16	4.1	13	43	13
Copper	mg/kg	17	30	38	24	22
Lead	mg/kg	11	23	15	15	17
Nickel	mg/kg	4.9	10	4.9	21	4.0
Zinc	mg/kg	27	87	53	70	65



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Mercury Cold Vapor/Hg Analyser						
Our Reference:	UNITS	SE78952-1	SE78952-2	SE78952-4	SE78952-5	SE78952-6
Your Reference	-----	CTP47_0.0-0.1	QC1000_0.0-0.1	CTP48_0.0-0.1(Soil)	CTP51_0.0-0.1	QC2000_0.0-0.1
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		7/06/2010	7/06/2010	7/06/2010	7/06/2010	7/06/2010
Depth		0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Extracted (Mercury)		17/06/2010	17/06/2010	17/06/2010	17/06/2010	17/06/2010
Date Analysed (Mercury)		17/06/2010	17/06/2010	17/06/2010	17/06/2010	17/06/2010
Mercury	mg/kg	<0.05	<0.05	0.13	<0.05	<0.05

Mercury Cold Vapor/Hg Analyser						
Our Reference:	UNITS	SE78952-7	SE78952-8	SE78952-10	SE78952-11	SE78952-12
Your Reference	-----	CTP66_0.0-0.1	CTP62_0.0-0.1 (Soil)	CTP65_0.0-0.1	CTP60_0.0-0.1	CTP50_0.0-0.1
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		7/06/2010	7/06/2010	7/06/2010	7/06/2010	7/06/2010
Depth		0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Extracted (Mercury)		17/06/2010	17/06/2010	17/06/2010	17/06/2010	17/06/2010
Date Analysed (Mercury)		17/06/2010	17/06/2010	17/06/2010	17/06/2010	17/06/2010
Mercury	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05



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Asbestos ID in soil Our Reference: Your Reference	UNITS -----	SE78952-1 CTP47_0.0- 0.1	SE78952-4 CTP48_0.0- 0.1(Soil)	SE78952-5 CTP51_0.0- 0.1	SE78952-7 CTP66_0.0- 0.1	SE78952-8 CTP62_0.0- 0.1 (Soil)
Sample Matrix Date Sampled Depth	-----	Soil 7/06/2010 0.0-0.1	Soil 7/06/2010 0.0-0.1	Soil 7/06/2010 0.0-0.1	Soil 7/06/2010 0.0-0.1	Soil 7/06/2010 0.0-0.1
Date Analysed		16/06/2010	16/06/2010	16/06/2010	16/06/2010	16/06/2010
Sample Description		20g soil	10g soil,plant matter	12g soil	12g soil	24g soil,plant matter
Asbestos ID in soil	-	No asbestos detected	Chrysotile asbestos detected Organic fibres detected*	No asbestos detected Organic fibres detected*	No asbestos detected	No asbestos detected Organic fibres detected*

Asbestos ID in soil Our Reference: Your Reference	UNITS -----	SE78952-1 0	SE78952-1 1	SE78952-1 2
Sample Matrix Date Sampled Depth	-----	Soil 7/06/2010 0.0-0.1	Soil 7/06/2010 0.0-0.1	Soil 7/06/2010 0.0-0.1
Date Analysed		16/06/2010	16/06/2010	16/06/2010
Sample Description		6g soil	8g soil	11g soil
Asbestos ID in soil	-	No asbestos detected	No asbestos detected Organic fibres detected*	No asbestos detected



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Asbestos ID in materials Our Reference: Your Reference Sample Matrix Date Sampled Depth	UNITS ----- -----	SE78952-3 CTP48_surf ace Soil 7/06/2010 surface	SE78952-9 CTP62_surf ace Soil 7/06/2010 surface
Date Analysed		15/06/2010	15/06/2010
Sample Description		60x40x3m m cement sheet fragments	20x10x3m m cement fragments
Asbestos ID in materials	-	Chrysotile asbestos detected Amosite asbestos detected	No asbestos detected



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Moisture						
Our Reference:	UNITS	SE78952-1	SE78952-2	SE78952-4	SE78952-5	SE78952-6
Your Reference	-----	CTP47_0.0-0.1	QC1000_0.0-0.1	CTP48_0.0-0.1(Soil)	CTP51_0.0-0.1	QC2000_0.0-0.1
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		7/06/2010	7/06/2010	7/06/2010	7/06/2010	7/06/2010
Depth		0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Analysed (moisture)		15/06/2010	15/06/2010	15/06/2010	15/06/2010	15/06/2010
Moisture	%	29	29	32	34	35

Moisture						
Our Reference:	UNITS	SE78952-7	SE78952-8	SE78952-10	SE78952-11	SE78952-12
Your Reference	-----	CTP66_0.0-0.1	CTP62_0.0-0.1 (Soil)	CTP65_0.0-0.1	CTP60_0.0-0.1	CTP50_0.0-0.1
Sample Matrix	-----	Soil	Soil	Soil	Soil	Soil
Date Sampled		7/06/2010	7/06/2010	7/06/2010	7/06/2010	7/06/2010
Depth		0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1	0.0-0.1
Date Analysed (moisture)		15/06/2010	15/06/2010	15/06/2010	15/06/2010	15/06/2010
Moisture	%	23	12	26	34	40



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Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEO-005	OC/OP/PCB - Determination of a suite of Organochlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
AN602	Analysed using in house method AN602 - Qualitative identification of Asbestos Fibres, Synthetic Mineral Fibres and Organic Fibres in bulk samples (including building materials and soils) using Polarised Light Microscopy and Dispersion Staining Techniques. Our NATA Accreditation does not currently cover the identification of Synthetic Mineral Fibres and Organic Fibres, however, according to new NATA requirements, the reporting of these fibres is compulsory if detected.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at 105 ± 5°C.



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
BTEX in Soil								
Date Extracted (BTEX)				15/06/10	SE78952-7	15/06/2010 15/06/2010	SE78952-8	15/06/10
Date Analysed (BTEX)				15/06/10	SE78952-7	15/06/2010 15/06/2010	SE78952-8	15/06/10
Benzene	mg/kg	0.1	SEO-018	<0.1	SE78952-7	<0.1 <0.1	SE78952-8	69%
Toluene	mg/kg	0.1	SEO-018	<0.1	SE78952-7	<0.1 <0.1	SE78952-8	75%
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1	SE78952-7	<0.1 <0.1	SE78952-8	78%
Total Xylenes	mg/kg	0.3	SEO-018	<0.3	SE78952-7	<0.3 <0.3	SE78952-8	86%
BTEX Surrogate (%)	%	0	SEO-018	81	SE78952-7	84 68 RPD: 21	SE78952-8	81%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH in soil with..C6-C9 by P/T								
Date Extracted (TRH C6-C9 PT)				15/06/10	SE78952-7	15/06/2010 15/06/2010	SE78952-8	15/06/10
Date Analysed (TRH C6-C9 PT)				15/06/10	SE78952-7	15/06/2010 15/06/2010	SE78952-8	15/06/10
TRH C6 - C9 P&T	mg/kg	20	SEO-018	<20	SE78952-7	<20 <20	SE78952-8	92%
Date Extracted (TRH C10-C36)				15/06/10	SE78952-7	15/06/2010 15/06/2010	[NR]	[NR]
Date Analysed (TRH C10-C36)				15/06/10	SE78952-7	15/06/2010 15/06/2010	[NR]	[NR]
TRH C10 - C14	mg/kg	20	SEO-020	<20	SE78952-7	<20 [N/T]	[NR]	[NR]
TRH C15 - C28	mg/kg	50	SEO-020	<50	SE78952-7	<50 [N/T]	[NR]	[NR]
TRH C29 - C36	mg/kg	50	SEO-020	<50	SE78952-7	<50 [N/T]	[NR]	[NR]



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PAHs in Soil								
Date Extracted				15/06/10	SE78952-1	15/06/2010 15/06/2010	SE78952-5	15/06/10
Date Analysed				15/06/10	SE78952-1	15/06/2010 15/06/2010	SE78952-5	15/06/10
Naphthalene	mg/kg	0.1	SEO-030	<0.10	SE78952-1	<0.10 <0.10	SE78952-5	103%
2-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE78952-1	<0.10 <0.10	[NR]	[NR]
1-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	SE78952-1	<0.10 <0.10	[NR]	[NR]
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	SE78952-1	<0.10 <0.10	SE78952-5	102%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	SE78952-1	<0.10 <0.10	SE78952-5	118%
Fluorene	mg/kg	0.1	SEO-030	<0.10	SE78952-1	<0.10 <0.10	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	SE78952-1	<0.10 <0.10	SE78952-5	111%
Anthracene	mg/kg	0.1	SEO-030	<0.10	SE78952-1	<0.10 <0.10	SE78952-5	112%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	SE78952-1	<0.10 <0.10	SE78952-5	110%
Pyrene	mg/kg	0.1	SEO-030	<0.10	SE78952-1	<0.10 <0.10	SE78952-5	111%
Benzo[a]anthracene	mg/kg	0.1	SEO-030	<0.10	SE78952-1	<0.10 <0.10	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	SE78952-1	<0.10 <0.10	[NR]	[NR]
Benzo[b,k]fluoranthene	mg/kg	0.2	SEO-030	<0.20	SE78952-1	<0.20 <0.20	[NR]	[NR]
Benzo[a]pyrene	mg/kg	0.05	SEO-030	<0.05	SE78952-1	<0.05 <0.05	SE78952-5	93%
Indeno[123-cd]pyrene	mg/kg	0.1	SEO-030	<0.10	SE78952-1	<0.10 <0.10	[NR]	[NR]
Dibenzo[ah]anthracene	mg/kg	0.1	SEO-030	<0.10	SE78952-1	<0.10 <0.10	[NR]	[NR]
Benzo[ghi]perylene	mg/kg	0.1	SEO-030	<0.10	SE78952-1	<0.10 <0.10	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.75	SEO-030	<1.7	SE78952-1	<1.7 <1.7	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	106	SE78952-1	118 113 RPD: 4	SE78952-5	107%
2-Fluorobiphenyl	%	0	SEO-030	101	SE78952-1	113 105 RPD: 7	SE78952-5	104%
p -Terphenyl-d14	%	0	SEO-030	114	SE78952-1	120 117 RPD: 3	SE78952-5	121%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OC Pesticides in Soil								
Date Extracted				15/06/2010	SE78952-6	15/06/2010 15/06/2010	SE78952-7	15/06/2010
Date Analysed				15/06/2010	SE78952-6	15/06/2010 15/06/2010	SE78952-7	15/06/2010
HCB	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
<i>alpha</i> -BHC	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
gamma-BHC (Lindane)	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
Heptachlor	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	SE78952-7	128%
Aldrin	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	SE78952-7	124%
<i>beta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
<i>delta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	SE78952-7	109%
Heptachlor Epoxide	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
<i>o,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
<i>alpha</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
<i>trans</i> -Chlordane (<i>gamma</i>)	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
<i>cis</i> -Chlordane (<i>alpha</i>)	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
<i>trans</i> -Nonachlor	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
<i>p,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
Dieldrin	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	SE78952-7	122%
Endrin	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	SE78952-7	120%
<i>o,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
<i>o,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
<i>beta</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
<i>p,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
<i>p,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	SE78952-7	126%
Endosulfan Sulphate	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
Methoxychlor	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
Endrin Ketone	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	0	SEO-005	115	SE78952-6	113 125 RPD: 10	SE78952-7	109%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PCBs in Soil								
Date Extracted				15/06/2010	SE78952-6	15/06/2010 15/06/2010	SE78952-10	15/06/2010
Date Analysed				15/06/2010	SE78952-6	15/06/2010 15/06/2010	SE78952-10	15/06/2010
Arochlor 1016	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
Arochlor 1260	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	SE78952-10	106%
Arochlor 1262	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
Arochlor 1268	mg/kg	0.1	SEO-005	<0.1	SE78952-6	<0.1 <0.1	[NR]	[NR]
Total Positive PCB	mg/kg	0.9	SEO-005	<0.90	SE78952-6	<0.90 <0.90	[NR]	[NR]
PCB_Surrogate 1	%	0	SEO-005	115	SE78952-6	113 125 RPD: 10	SE78952-10	109%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Metals in Soil by ICP-OES								
Date Extracted (Metals)				18/06/2010	SE78952-1	18/06/2010 18/06/2010	SE78952-2	18/06/2010
Date Analysed (Metals)				18/06/2010	SE78952-1	18/06/2010 18/06/2010	SE78952-2	18/06/2010
Arsenic	mg/kg	3	SEM-010	<3	SE78952-1	4 4 RPD: 0	SE78952-2	100%
Cadmium	mg/kg	0.3	SEM-010	<0.3	SE78952-1	0.4 0.4 RPD: 0	SE78952-2	97%
Chromium	mg/kg	0.3	SEM-010	<0.3	SE78952-1	18 17 RPD: 6	SE78952-2	96%
Copper	mg/kg	0.5	SEM-010	<0.5	SE78952-1	7.8 7.3 RPD: 7	SE78952-2	101%
Lead	mg/kg	1	SEM-010	<1	SE78952-1	16 15 RPD: 6	SE78952-2	93%
Nickel	mg/kg	0.5	SEM-010	<0.5	SE78952-1	2.2 2.0 RPD: 10	SE78952-2	92%
Zinc	mg/kg	0.5	SEM-010	<0.5	SE78952-1	22 21 RPD: 5	SE78952-2	99%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Mercury Cold Vapor/Hg Analyser								
Date Extracted (Mercury)				17/06/2010	[NT]	[NT]	LCS	17/06/2010
Date Analysed (Mercury)				17/06/2010	[NT]	[NT]	LCS	17/06/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	[NT]	[NT]	LCS	99%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Asbestos ID in soil				
Date Analysed				[NT]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Asbestos ID in materials				
Date Analysed				[NT]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Moisture				
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1

QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH in soil with..C6-C9 by P/T					
Date Extracted (TRH C6-C9 PT)		SE78952-1	15/06/2010 15/06/2010	[NR]	[NR]
Date Analysed (TRH C6-C9 PT)		SE78952-1	15/06/2010 15/06/2010	[NR]	[NR]
Date Extracted (TRH C10-C36)		SE78952-1	15/06/2010 15/06/2010	LCS	15/06/10
Date Analysed (TRH C10-C36)		SE78952-1	15/06/2010 15/06/2010	LCS	15/06/10
TRH C10 - C14	mg/kg	SE78952-1	<20 <20	LCS	93%
TRH C15 - C28	mg/kg	SE78952-1	<50 <50	LCS	96%
TRH C29 - C36	mg/kg	SE78952-1	<50 <50	LCS	97%



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Result Codes

[INS] : Insufficient Sample for this test	[RPD] : Relative Percentage Difference
[NR] : Not Requested	* : Not part of NATA Accreditation
[NT] : Not tested	[N/A] : Not Applicable
[LOR] : Limit of reporting	

Report Comments

Sampled by the client

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy.

This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

Sample # 9: was ashed after initial stereo microscope examination, re-examined and trace analysis performed on all samples. No respirable fibres detected using trace analysis technique.

Sample # 4: 1-2mm length fibre bundles found in 5x4x3mm cement sheet fragment.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)

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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.



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Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>



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Client Details

Requested By : **Colee Quayle**
 Client : Coffey Environments Pty Ltd
 Contact : Colee Quayle
 Address : 118 Auburn Street
 Wollongong NSW 2500

Email : Colee_Quayle@coffey.com
 Telephone : 02 4201 1400
 Facsimile : 02 4201 1401

Project : ENVIWOLL00250AB
 Order Number : 28752
 Samples : 10 Soils, 2 Material

Laboratory Details

Laboratory : SGS Environmental Services
 Manager : Edward Ibrahim
 Address : Unit 16, 33 Maddox Street
 Alexandria NSW 2015

Email : au.samplereceipt.sydney@sgs.com
 Telephone : 61 2 8594 0400
 Facsimile : 61 2 8594 0499

Report No : **SE78952**
 No. of Samples : 12
 Due Date : 17/06/2010

Date Instructions Received : 9/06/2010
 Sample Receipt Date : 9/6/10

Samples received in good order	: YES	Samples received in correct container:	YES
Samples received without headspace	: YES	Sufficient quantity supplied	: YES
Upon receipt sample temperature	: Cool	Cooling Method	: Ice Pack
Sample containers provided by	: SGS	Samples clearly Labelled	: YES
Turnaround time requested	: Standard	Completed documentation received	: YES

Samples will be held for 1 month for water samples and 3 months for soil samples from date of receipt of samples, unless otherwise instructed.

Comments

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.

The signed chain of custody will be returned to you with the original report.

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE78952

Summary of Samples and Requested Analysis

The table below represents SGS Environmental Service's understanding and interpretation of the customer supplied sample request.

Please indicate ASAP if your request differs from these details.

Testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

Note that a small X in the table below indicates some testing has not been requested in the package.

Sample No.	Description	Metals Prep. soil 8 HM	BTEX in Soil	TRH in soil with .C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Asbestos ID in materials	Moisture
1	CTP47_0.0-0.1	X	X	X	X	X	X	X	X	X		X
2	QC1000_0.0-0.1	X	X	X	X	X	X	X	X			X
3	CTP48_surface										X	
4	CTP48_0.0-0.1(Soil)	X				X		X	X	X		X
5	CTP51_0.0-0.1	X	X	X	X	X	X	X	X	X		X
6	QC2000_0.0-0.1	X	X	X	X	X	X	X	X			X
7	CTP66_0.0-0.1	X	X	X	X	X	X	X	X	X		X
8	CTP62_0.0-0.1 (Soil)	X	X	X	X	X	X	X	X	X		X
9	CTP62_surface										X	
10	CTP65_0.0-0.1	X			X	X	X	X	X	X		X
11	CTP60_0.0-0.1	X			X			X	X	X		X
12	CTP50_0.0-0.1	X				X		X	X	X		X



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
Project : ENVIWOLL00250AB

Report No : SE78952

Sample No.	Description
1	CTP47_0.0-0.1
2	QC1000_0.0-0.1
3	CTP48_surface
4	CTP48_0.0-0.1(Soil)
5	CTP51_0.0-0.1
6	QC2000_0.0-0.1
7	CTP66_0.0-0.1
8	CTP62_0.0-0.1 (Soil)
9	CTP62_surface
10	CTP65_0.0-0.1
11	CTP60_0.0-0.1
12	CTP50_0.0-0.1

ANALYTICAL REPORT

24 June 2010

Coffey Environments Pty Ltd

118 Auburn Street
Wollongong
NSW 2500

Attention: Colee Quayle

Your Reference: ENVIWOLL00250AB

Our Reference: SE79135

Samples: 2 Soils

Received: 17/6/10

Preliminary Report Sent: 23/06/2010

These samples were analysed in accordance with your written instructions.

For and on Behalf of:

SGS ENVIRONMENTAL SERVICES

Sample Receipt: Angela Mamalicos

AU.SampleReceipt.Sydney@sgs.com

Production Manager: Huong Crawford

Huong.Crawford@sgs.com

Results Approved and/or Authorised by:



Edward Ibrahim
Laboratory Manager



Ravee Sivasubramaniam
Asbestos Signatory



Ly Kim Ha
Organics Signatory



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BTEX in Soil			
Our Reference:	UNITS	SE79135-1	SE79135-2
Your Reference	-----	CTP66/0.0-0.1	CTP66/0.8-1.0
Sample Matrix	-----	Soil	Soil
Date Sampled		11/06/2010	
Date Extracted (BTEX)		22/06/2010	22/06/2010
Date Analysed (BTEX)		22/06/2010	22/06/2010
Benzene	mg/kg	<0.1	<0.1
Toluene	mg/kg	<0.1	<0.1
Ethylbenzene	mg/kg	<0.1	<0.1
Total Xylenes	mg/kg	<0.3	<0.3
BTEX Surrogate (%)	%	76	68



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TRH in soil with..C6-C9 by P/T Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE79135-1 CTP66/0.0- 0.1 Soil 11/06/2010	SE79135-2 CTP66/0.8- 1.0 Soil
Date Extracted (TRH C6-C9 PT)		22/06/2010	22/06/2010
Date Analysed (TRH C6-C9 PT)		22/06/2010	22/06/2010
TRH C ₆ - C ₉ P&T	mg/kg	<20	<20
Date Extracted (TRH C10-C36)		22/06/2010	22/06/2010
Date Analysed (TRH C10-C36)		22/06/2010	22/06/2010
TRH C ₁₀ - C ₁₄	mg/kg	<20	<20
TRH C ₁₅ - C ₂₈	mg/kg	<50	<50
TRH C ₂₉ - C ₃₆	mg/kg	<50	<50



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PAHs in Soil Our Reference: Your Reference	UNITS -----	SE79135-1 CTP66/0.0- 0.1	SE79135-2 CTP66/0.8- 1.0
Sample Matrix Date Sampled	-----	Soil 11/06/2010	Soil
Date Extracted		22/06/2010	22/06/2010
Date Analysed		22/06/2010	22/06/2010
Naphthalene	mg/kg	<0.10	<0.10
2-Methylnaphthalene	mg/kg	<0.10	<0.10
1-Methylnaphthalene	mg/kg	<0.10	<0.10
Acenaphthylene	mg/kg	<0.10	<0.10
Acenaphthene	mg/kg	<0.10	<0.10
Fluorene	mg/kg	<0.10	<0.10
Phenanthrene	mg/kg	<0.10	<0.10
Anthracene	mg/kg	<0.10	<0.10
Fluoranthene	mg/kg	<0.10	<0.10
Pyrene	mg/kg	<0.10	<0.10
Benzo[a]anthracene	mg/kg	<0.10	<0.10
Chrysene	mg/kg	<0.10	<0.10
Benzo[b,k]fluoranthene	mg/kg	<0.20	<0.20
Benzo[a]pyrene	mg/kg	<0.05	<0.05
Indeno[123-cd]pyrene	mg/kg	<0.10	<0.10
Dibenzo[ah]anthracene	mg/kg	<0.10	<0.10
Benzo[ghi]perylene	mg/kg	<0.10	<0.10
Total PAHs (sum)	mg/kg	<1.7	<1.7
Nitrobenzene-d5	%	62	93
2-Fluorobiphenyl	%	75	119
<i>p</i> -Terphenyl-d14	%	62	109



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OC Pesticides in Soil			
Our Reference:	UNITS	SE79135-1	SE79135-2
Your Reference	-----	CTP66/0.0-0.1	CTP66/0.8-1.0
Sample Matrix	-----	Soil	Soil
Date Sampled		11/06/2010	
Date Extracted		24/06/2010	24/06/2010
Date Analysed		24/06/2010	24/06/2010
HCB	mg/kg	<0.1	<0.1
<i>alpha</i> -BHC	mg/kg	<0.1	<0.1
gamma-BHC (Lindane)	mg/kg	<0.1	<0.1
Heptachlor	mg/kg	<0.1	<0.1
Aldrin	mg/kg	<0.1	<0.1
<i>beta</i> -BHC	mg/kg	<0.1	<0.1
<i>delta</i> -BHC	mg/kg	<0.1	<0.1
Heptachlor Epoxide	mg/kg	<0.1	<0.1
<i>o,p</i> -DDE	mg/kg	<0.1	<0.1
<i>alpha</i> -Endosulfan	mg/kg	<0.1	<0.1
<i>trans</i> -Chlordane (<i>gamma</i>)	mg/kg	<0.1	<0.1
<i>cis</i> -Chlordane (<i>alpha</i>)	mg/kg	<0.1	<0.1
<i>trans</i> -Nonachlor	mg/kg	<0.1	<0.1
<i>p,p</i> -DDE	mg/kg	<0.1	<0.1
Dieldrin	mg/kg	<0.1	<0.1
Endrin	mg/kg	<0.1	<0.1
<i>o,p</i> -DDD	mg/kg	<0.1	<0.1
<i>o,p</i> -DDT	mg/kg	<0.1	<0.1
<i>beta</i> -Endosulfan	mg/kg	<0.1	<0.1
<i>p,p</i> -DDD	mg/kg	<0.1	<0.1
<i>p,p</i> -DDT	mg/kg	<0.1	<0.1
Endosulfan Sulphate	mg/kg	<0.1	<0.1
Endrin Aldehyde	mg/kg	<0.1	<0.1
Methoxychlor	mg/kg	<0.1	<0.1
Endrin Ketone	mg/kg	<0.1	<0.1
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	111	105



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OP Pesticides in Soil by GCMS			
Our Reference:	UNITS	SE79135-1	SE79135-2
Your Reference	-----	CTP66/0.0-0.1	CTP66/0.8-1.0
Sample Matrix	-----	Soil	Soil
Date Sampled		11/06/2010	
Date Extracted		22/06/2010	22/06/2010
Date Analysed		22/06/2010	22/06/2010
Dichlorvos	mg/kg	<1	<1
Dimethoate	mg/kg	<1	<1
Diazinon	mg/kg	<0.5	<0.5
Fenitrothion	mg/kg	<0.2	<0.2
Malathion	mg/kg	<0.20	<0.20
Chlorpyrifos-ethyl	mg/kg	<0.2	<0.2
Parathion-ethyl	mg/kg	<0.2	<0.2
Bromofos-ethyl	mg/kg	<0.2	<0.2
Methidathion	mg/kg	<0.5	<0.5
Ethion	mg/kg	<0.2	<0.2
Azinphos-methyl	mg/kg	<0.20	<0.20
2-fluorobiphenyl (Surr)	%	75	119
d14-p-Terphenyl (Surr)	%	62	109



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PCBs in Soil			
Our Reference:	UNITS	SE79135-1	SE79135-2
Your Reference	-----	CTP66/0.0- 0.1	CTP66/0.8- 1.0
Sample Matrix	-----	Soil	Soil
Date Sampled		11/06/2010	
Date Extracted		24/06/2010	24/06/2010
Date Analysed		24/06/2010	24/06/2010
Arochlor 1016	mg/kg	<0.1	<0.1
Arochlor 1221	mg/kg	<0.1	<0.1
Arochlor 1232	mg/kg	<0.1	<0.1
Arochlor 1242	mg/kg	<0.1	<0.1
Arochlor 1248	mg/kg	<0.1	<0.1
Arochlor 1254	mg/kg	<0.1	<0.1
Arochlor 1260	mg/kg	<0.1	<0.1
Arochlor 1262	mg/kg	<0.1	<0.1
Arochlor 1268	mg/kg	<0.1	<0.1
Total Positive PCB	mg/kg	<0.90	<0.90
PCB_Surrogate 1	%	111	105



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Metals in Soil by ICP-OES			
Our Reference:	UNITS	SE79135-1	SE79135-2
Your Reference	-----	CTP66/0.0- 0.1	CTP66/0.8- 1.0
Sample Matrix	-----	Soil	Soil
Date Sampled		11/06/2010	
Date Extracted (Metals)		23/06/2010	23/06/2010
Date Analysed (Metals)		23/06/2010	23/06/2010
Arsenic	mg/kg	4	4
Cadmium	mg/kg	0.3	<0.3
Chromium	mg/kg	44	22
Copper	mg/kg	34	13
Lead	mg/kg	12	10
Nickel	mg/kg	8.0	5.7
Zinc	mg/kg	40	26



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Mercury Cold Vapor/Hg Analyser			
Our Reference:	UNITS	SE79135-1	SE79135-2
Your Reference	-----	CTP66/0.0- 0.1	CTP66/0.8- 1.0
Sample Matrix	-----	Soil	Soil
Date Sampled		11/06/2010	
Date Extracted (Mercury)		23/06/2010	23/06/2010
Date Analysed (Mercury)		23/06/2010	23/06/2010
Mercury	mg/kg	<0.05	<0.05



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Asbestos ID in soil Our Reference: Your Reference	UNITS ----- -----	SE79135-1 CTP66/0.0- 0.1 Soil 11/06/2010	SE79135-2 CTP66/0.8- 1.0 Soil
Date Analysed		23/06/2010	23/06/2010
Sample Description		31g soil,rocks,pl ant matter	50g clay,soil
Asbestos ID in soil	-	No asbestos detected Organic fibres detected*	No asbestos detected



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Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Moisture			
Our Reference:	UNITS	SE79135-1	SE79135-2
Your Reference	-----	CTP66/0.0- 0.1	CTP66/0.8- 1.0
Sample Matrix	-----	Soil	Soil
Date Sampled		11/06/2010	
Date Analysed (moisture)		22/06/2010	22/06/2010
Moisture	%	25	14



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t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEO-005	OC/OP/PCB - Determination of a suite of Organchlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
AN420	Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates, and Speciated Phenols in soils, sediments and waters are determined by GCMS/ECD/FID technique following appropriate solvent extraction process (Based on USEPA 3500C and 8270D).
SEM-010	Determination of elements by ICP-OES following appropriate sample preparation / digestion process. Based on USEPA 6010C / APHA 21st Edition, 3120B.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.
AN602	Analysed using in house method AN602 - Qualitative identification of Asbestos Fibres, Synthetic Mineral Fibres and Organic Fibres in bulk samples (including building materials and soils) using Polarised Light Microscopy and Dispersion Staining Techniques. Our NATA Accreditation does not currently cover the identification of Synthetic Mineral Fibres and Organic Fibres, however, according to new NATA requirements, the reporting of these fibres is compulsory if detected.
AN002	Preparation of soils, sediments and sludges undergo analysis by either air drying, compositing, subsampling and 1:5 soil water extraction where required. Moisture content is determined by drying the sample at $105 \pm 5^{\circ}\text{C}$.



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
BTEX in Soil								
Date Extracted (BTEX)				22/06/10	[NT]	[NT]	LCS	22/06/10
Date Analysed (BTEX)				22/06/10	[NT]	[NT]	LCS	22/06/10
Benzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	66%
Toluene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	68%
Ethylbenzene	mg/kg	0.1	SEO-018	<0.1	[NT]	[NT]	LCS	68%
Total Xylenes	mg/kg	0.3	SEO-018	<0.3	[NT]	[NT]	LCS	67%
BTEX Surrogate (%)	%	0	SEO-018	100	[NT]	[NT]	LCS	67%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH in soil with..C6-C9 by P/T								
Date Extracted (TRH C6-C9 PT)				22/06/10	[NT]	[NT]	LCS	22/06/10
Date Analysed (TRH C6-C9 PT)				22/06/10	[NT]	[NT]	LCS	22/06/10
TRH C ₆ - C ₉ P&T	mg/kg	20	SEO-018	<20	[NT]	[NT]	LCS	81%
Date Extracted (TRH C10-C36)				22/06/2010	[NT]	[NT]	LCS	22/06/2010
Date Analysed (TRH C10-C36)				22/06/2010	[NT]	[NT]	LCS	22/06/2010
TRH C ₁₀ - C ₁₄	mg/kg	20	SEO-020	<20	[NT]	[NT]	LCS	122%
TRH C ₁₅ - C ₂₈	mg/kg	50	SEO-020	<50	[NT]	[NT]	LCS	115%
TRH C ₂₉ - C ₃₆	mg/kg	50	SEO-020	<50	[NT]	[NT]	LCS	85%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PAHs in Soil								
Date Extracted				22/06/2010	[NT]	[NT]	LCS	22/06/2010
Date Analysed				22/06/2010	[NT]	[NT]	LCS	22/06/2010
Naphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	87%
2-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
1-Methylnaphthalene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Acenaphthylene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	88%
Acenaphthene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	97%
Fluorene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Phenanthrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	93%
Anthracene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	106%
Fluoranthene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	91%
Pyrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	LCS	90%
Benzo[a]anthracene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Chrysene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Benzo[b,k]fluoranthene	mg/kg	0.2	SEO-030	<0.20	[NT]	[NT]	[NR]	[NR]
Benzo[a]pyrene	mg/kg	0.05	SEO-030	<0.05	[NT]	[NT]	LCS	96%
Indeno[123-cd]pyrene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Dibenzo[ah]anthracene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Benzo[ghi]perylene	mg/kg	0.1	SEO-030	<0.10	[NT]	[NT]	[NR]	[NR]
Total PAHs (sum)	mg/kg	1.75	SEO-030	<1.7	[NT]	[NT]	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	63	[NT]	[NT]	LCS	81%
2-Fluorobiphenyl	%	0	SEO-030	67	[NT]	[NT]	LCS	72%
p -Terphenyl-d14	%	0	SEO-030	99	[NT]	[NT]	LCS	63%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OC Pesticides in Soil								
Date Extracted				24/06/2010	[NT]	[NT]	LCS	24/06/2010
Date Analysed				24/06/2010	[NT]	[NT]	LCS	24/06/2010
HCB	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>alpha</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
gamma-BHC (Lindane)	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Heptachlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	95%
Aldrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	88%
<i>beta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>delta</i> -BHC	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	79%
Heptachlor Epoxide	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>o,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>alpha</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>trans</i> -Chlordane (<i>gamma</i>)	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>cis</i> -Chlordane (<i>alpha</i>)	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>trans</i> -Nonachlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDE	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Dieldrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	92%
Endrin	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	97%
<i>o,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>o,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>beta</i> -Endosulfan	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDD	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
<i>p,p</i> -DDT	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	95%
Endosulfan Sulphate	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Aldehyde	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Methoxychlor	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Endrin Ketone	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	0	SEO-005	102	[NT]	[NT]	LCS	102%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OP Pesticides in Soil by GCMS								
Date Extracted				22/06/2010	[NT]	[NT]	LCS	22/06/2010
Date Analysed				22/06/2010	[NT]	[NT]	LCS	22/06/2010
Dichlorvos	mg/kg	1	AN420	<1	[NT]	[NT]	LCS	127%
Dimethoate	mg/kg	1	AN420	<1	[NT]	[NT]	[NR]	[NR]
Diazinon	mg/kg	0.5	AN420	<0.5	[NT]	[NT]	LCS	113%
Fenitrothion	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	[NR]	[NR]
Malathion	mg/kg	0.2	AN420	<0.20	[NT]	[NT]	[NR]	[NR]
Chlorpyrifos-ethyl	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	LCS	106%
Parathion-ethyl	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	[NR]	[NR]
Bromofos-ethyl	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	[NR]	[NR]
Methidathion	mg/kg	0.5	AN420	<0.5	[NT]	[NT]	[NR]	[NR]
Ethion	mg/kg	0.2	AN420	<0.2	[NT]	[NT]	LCS	118%
Azinphos-methyl	mg/kg	0.2	AN420	<0.20	[NT]	[NT]	[NR]	[NR]
2-fluorobiphenyl (Surr)	%	0	AN420	67	[NT]	[NT]	LCS	117%
d14-p-Terphenyl (Surr)	%	0	AN420	99	[NT]	[NT]	LCS	96%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PCBs in Soil								
Date Extracted				24/06/2010	[NT]	[NT]	LCS	24/06/2010
Date Analysed				24/06/2010	[NT]	[NT]	LCS	24/06/2010
Arochlor 1016	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1221	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1232	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1242	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1248	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1254	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1260	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	LCS	105%
Arochlor 1262	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Arochlor 1268	mg/kg	0.1	SEO-005	<0.1	[NT]	[NT]	[NR]	[NR]
Total Positive PCB	mg/kg	0.9	SEO-005	<0.90	[NT]	[NT]	[NR]	[NR]
PCB_Surrogate 1	%	0	SEO-005	102	[NT]	[NT]	LCS	105%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
Metals in Soil by ICP-OES						Base + Duplicate + %RPD		Duplicate + %RPD
Date Extracted (Metals)				23/06/2010	[NT]	[NT]	LCS	23/06/2010
Date Analysed (Metals)				23/06/2010	[NT]	[NT]	LCS	23/06/2010
Arsenic	mg/kg	3	SEM-010	<3	[NT]	[NT]	LCS	101%
Cadmium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	101%
Chromium	mg/kg	0.3	SEM-010	<0.3	[NT]	[NT]	LCS	106%
Copper	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	102%
Lead	mg/kg	1	SEM-010	<1	[NT]	[NT]	LCS	102%
Nickel	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	102%
Zinc	mg/kg	0.5	SEM-010	<0.5	[NT]	[NT]	LCS	97%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate	Spike Sm#	Matrix Spike % Recovery
Mercury Cold Vapor/Hg Analyser						Base + Duplicate + %RPD		Duplicate + %RPD
Date Extracted (Mercury)				23/06/2010	[NT]	[NT]	LCS	23/06/2010
Date Analysed (Mercury)				23/06/2010	[NT]	[NT]	LCS	23/06/2010
Mercury	mg/kg	0.05	SEM-005	<0.05	[NT]	[NT]	LCS	108%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Asbestos ID in soil				
Date Analysed				[NT]

QUALITY CONTROL	UNITS	LOR	METHOD	Blank
Moisture				
Date Analysed (moisture)				[NT]
Moisture	%	1	AN002	<1



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Result Codes

[INS] : Insufficient Sample for this test	[RPD] : Relative Percentage Difference
[NR] : Not Requested	* : Not part of NATA Accreditation
[NT] : Not tested	[N/A] : Not Applicable
[LOR] : Limit of reporting	

Report Comments

Sampled by the client

Even after disintegration it can be very difficult, or impossible, to detect the presence of asbestos in some asbestos-containing bulk materials using polarised light microscopy.

This is due to the low grade or small length or diameter of asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials.

No respirable fibres detected using trace analysis technique.

Asbestos analysed by Approved Identifier Ravee Sivasubramaniam.

Samples analysed as received. Solid samples expressed on a dry weight basis.

Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)

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(www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues established therein.

This document is to be treated as an original within the meaning of UCP 600. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>



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Client Details

Requested By : **Colee Quayle**
 Client : Coffey Environments Pty Ltd
 Contact : Colee Quayle
 Address : 118 Auburn Street
 Wollongong NSW 2500

Email : Colee_Quayle@coffey.com
 Telephone : 02 4201 1400
 Facsimile : 02 4201 1401

Project : ENVIWOLL00250AB
 Order Number : 27649
 Samples : 2 Soils

Laboratory Details

Laboratory : SGS Environmental Services
 Manager : Edward Ibrahim
 Address : Unit 16, 33 Maddox Street
 Alexandria NSW 2015

Email : au.samplereceipt.sydney@sgs.com
 Telephone : 61 2 8594 0400
 Facsimile : 61 2 8594 0499

Report No : **SE79135**
 No. of Samples : 2
 Due Date : 23/06/2010

Date Instructions Received : 17/06/2010
 Sample Receipt Date : 17/6/10

Samples received in good order	: YES	Samples received in correct container:	YES
Samples received without headspace	: YES	Sufficient quantity supplied	: YES
Upon receipt sample temperature	: Cool	Cooling Method	: Ice
Sample containers provided by	: SGS	Samples clearly Labelled	: YES
Turnaround time requested	: Standard	Completed documentation received	: YES

Samples will be held for 1 month for water samples and 3 months for soil samples from date of receipt of samples, unless otherwise instructed.

Comments

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.

The signed chain of custody will be returned to you with the original report.



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : ENVIWOLL00250AB

Report No : SE79135

Summary of Samples and Requested Analysis

The table below represents SGS Environmental Service's understanding and interpretation of the customer supplied sample request.

Please indicate ASAP if your request differs from these details.

Testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

Note that a small X in the table below indicates some testing has not been requested in the package.

Sample No.	Description	Metals Prep, soil 8 HM	BTEX in Soil	TRH in soil with .C6-C9 by P/T	PAHs in Soil	OC Pesticides in Soil	OP Pesticides in Soil by GCMS	PCBs in Soil	Metals in Soil by ICP-OES	Mercury Cold Vapor/Hg Analyser	Asbestos ID in soil	Moisture
1	CTP66/0.0-0.1	X	X	X	X	X	X	X	X	X	X	X
2	CTP66/0.8-1.0	X	X	X	X	X	X	X	X	X	X	X

Sample No.	Description
1	CTP66/0.0-0.1
2	CTP66/0.8-1.0

CERTIFICATE OF ANALYSIS

Coffey Environments Pty Ltd Wollongong
118 Auburn Street
Wollongong
NSW 2500
Site: ENVIWOLL00250AB

Report Number: 268016-A-V1 Page 1 of 10
Order Number:
Date Received: Jun 17, 2010
Date Sampled: Jun 11, 2010
Date Reported: Jun 25, 2010
Contact: Colee Quayle

Methods


- USEPA 8082 Polychlorinated Biphenyls
- USEPA 8141A Organophosphorus Pesticides
- USEPA 8081A Organochlorine Pesticides
- USEPA 8270C Polycyclic Aromatic Hydrocarbons
- USEPA 8260B - MGT 350A Monocyclic Aromatic Hydrocarbons
- TRH C6-C36 - MGT 100A
- USEPA 6020 Heavy Metals & USEPA 7470/71 Mercury
- Method 102 - ANZECC - % Moisture

Comments

Notes

Authorised

Report Number: 268016-A-V1



Michael Wright
Senior Principal Chemist
NATA Signatory



Dan Thompson
Laboratory Manager NSW

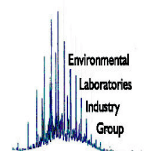


Onur Mehmet
Client Manager
NATA Signatory



NATA Corporate Accreditation Number 1261

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GLOSSARY OF TERMS

UNITS

mg/kg	milligrams per Kilogram	mg/l	milligrams per litre
ug/l	micrograms per litre	ppm	Parts per million
ppb	Parts per billion	%	Percentage
org/100ml	Organisms per 100 millilitres	NTU	Units

TERMS

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery
CRM	Certified Reference Material - reported as percent recovery
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water.
Surr - Surrogate Duplicate	The addition of a like compound to the analyte target and reported as percentage recovery. A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
Batch Duplicate	A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis.
Batch SPIKE	Spike recovery reported on a sample from outside of the clients batch of samples but run within the laboratory batch of analysis.
USEPA	United States Environment Protection Authority
APHA	American Public Health Association
ASLP	Australian Standard Leaching Procedure (AS4439.3)
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice

QC - ACCEPTANCE CRITERIA

RPD Duplicates	Results <10 times the LOR : No Limit Results between 10-20 times LOR : RPD must lie between 0-50% Results >20 times LOR : RPD must lie between 0-20%
LCS Recoveries	Recoveries must lie between 70-130% - Phenols 30-130%
CRM Recoveries	Recoveries must lie between 70-130% - Phenols 30-130%
Method Blanks	Not to exceed LOR
SPIKE Recoveries	Recoveries must lie between 70-130% - Phenols 30-130%
Surrogate Recoveries	Recoveries must lie between 50-150% - Phenols 20-130%

GENERAL COMMENTS

- All results in this report supersede any previously corresponded results.
- All soil results are reported on a dry basis.
- Samples are analysed on an as received basis.

QC DATA GENERAL COMMENTS

- Where a result is reported as a less than (<), higher than the nominated LOR this is due to either Matrix Interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
- Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
- Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
- Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
- Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
- Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
- Polychlorinated Biphenyls are spiked only using Arochlor 1260 in Matrix Spikes and LCS's.
- For Matrix Spikes and LCS results a dash "-" in the report means that the specific analyte was not added to the QC sample.
- Duplicate RPD's are calculated from raw analytical data thus it is possible to have two two sets of data below the LOR with a positive RPD - eg: LOR 0.1, Result A = <0.1 (raw data is 0.02) & Result B = <0.1 (raw data is 0.03) resulting in a RPD of 40% calculated from the raw data.

REPORT SPECIFIC NOTES

Coffey Environments Pty Ltd Wollongong	Client Sample ID		QA500
118 Auburn Street	Lab Number		T10-JN07082
Wollongong	Matrix		Soil
NSW 2500	Sample Date		Jun 11, 2010
Analysis Type	LOR	Units	
Total Recoverable Hydrocarbons			
TRH C6-C9 Fraction by GC	20	mg/kg	< 20
TRH C10-C14 Fraction by GC	50	mg/kg	< 50
TRH C15-C28 Fraction by GC	100	mg/kg	< 100
TRH C29-C36 Fraction by GC	100	mg/kg	< 100
Monocyclic Aromatic Hydrocarbons			
Benzene	0.05	mg/kg	< 0.05
Toluene	0.05	mg/kg	< 0.05
Ethylbenzene	0.05	mg/kg	< 0.05
Xylenes(ortho.meta and para)	0.05	mg/kg	< 0.05
Fluorobenzene (surr.)	1	%	112
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.1	mg/kg	< 0.1
Acenaphthylene	0.1	mg/kg	< 0.1
Anthracene	0.1	mg/kg	< 0.1
Benz(a)anthracene	0.1	mg/kg	< 0.1
Benzo(a)pyrene	0.1	mg/kg	< 0.1
Benzo(b)fluoranthene	0.1	mg/kg	< 0.1
Benzo(g,h,i)perylene	0.1	mg/kg	< 0.1
Benzo(k)fluoranthene	0.1	mg/kg	< 0.1
Chrysene	0.1	mg/kg	< 0.1
Dibenz(a,h)anthracene	0.1	mg/kg	< 0.1
Fluoranthene	0.1	mg/kg	< 0.1
Fluorene	0.1	mg/kg	< 0.1
Indeno(1,2,3-cd)pyrene	0.1	mg/kg	< 0.1
Naphthalene	0.1	mg/kg	< 0.1
Phenanthrene	0.1	mg/kg	< 0.1
Pyrene	0.1	mg/kg	< 0.1
Total PAH	0.1	mg/kg	< 0.1
p-Terphenyl-d14 (surr.)	1	%	77
2-Fluorobiphenyl (surr.)	1	%	81

Coffey Environments Pty Ltd Wollongong 118 Auburn Street Wollongong NSW 2500	Client Sample ID		QA500
	Lab Number		T10-JN07082
	Matrix		Soil
	Sample Date		Jun 11, 2010
Analysis Type	LOR	Units	
Organochlorine Pesticides			
4.4'-DDD	0.05	mg/kg	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05
a-BHC	0.05	mg/kg	< 0.05
Aldrin	0.05	mg/kg	< 0.05
b-BHC	0.05	mg/kg	< 0.05
Chlordane	0.1	mg/kg	< 0.1
d-BHC	0.05	mg/kg	< 0.05
Dieldrin	0.05	mg/kg	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05
Endrin	0.05	mg/kg	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05
Heptachlor	0.05	mg/kg	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05
Methoxychlor	0.05	mg/kg	< 0.05
Toxophene	0.1	mg/kg	< 0.1
Dibutylchloroendate (surr.)	1	%	84
Tetrachloro-m-xylene (surr.)	1	%	123
Organophosphorous Pesticides			
Bolstar	0.2	mg/kg	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2
Demeton-O	0.2	mg/kg	< 0.2
Diazinon	0.2	mg/kg	< 0.2

Coffey Environments Pty Ltd Wollongong 118 Auburn Street Wollongong NSW 2500	Client Sample ID		QA500
	Lab Number		T10-JN07082
	Matrix		Soil
	Sample Date		Jun 11, 2010
Analysis Type	LOR	Units	
Dichlorvos	0.2	mg/kg	< 0.2
Disulfoton	0.2	mg/kg	< 0.2
Ethion	0.2	mg/kg	< 0.2
Ethoprop	0.2	mg/kg	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2
Fenthion	0.2	mg/kg	< 0.2
Merphos	0.2	mg/kg	< 0.2
Methyl azinphos	0.2	mg/kg	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2
Mevinphos	0.2	mg/kg	< 0.2
Naled	0.5	mg/kg	< 0.5
Phorate	0.2	mg/kg	< 0.2
Ronnel	0.2	mg/kg	< 0.2
Tokuthion	0.2	mg/kg	< 0.2
Trichloronate	0.2	mg/kg	< 0.2
Triphenylphosphate (surr.)	1	%	80
Polychlorinated Biphenyls			
Aroclor-1016	0.1	mg/kg	< 0.1
Aroclor-1221	0.1	mg/kg	< 0.1
Aroclor-1232	0.1	mg/kg	< 0.1
Aroclor-1242	0.1	mg/kg	< 0.1
Aroclor-1248	0.1	mg/kg	< 0.1
Aroclor-1254	0.1	mg/kg	< 0.1
Aroclor-1260	0.1	mg/kg	< 0.1
Total PCB	0.5	mg/kg	< 0.5
Dibutylchloroendate (surr.)	1	%	84
Tetrachloro-m-xylene (surr.)	1	%	123

Coffey Environments Pty Ltd Wollongong 118 Auburn Street Wollongong NSW 2500	Client Sample ID		QA500
	Lab Number		T10-JN07082
	Matrix		Soil
	Sample Date		Jun 11, 2010
Analysis Type	LOR	Units	
% Moisture	0.1	%	10
Heavy Metals			
Arsenic	2	mg/kg	2.6
Cadmium	0.5	mg/kg	< 0.5
Chromium	5	mg/kg	29
Copper	5	mg/kg	21
Lead	5	mg/kg	< 5
Nickel	5	mg/kg	5.2
Zinc	5	mg/kg	28
Mercury	0.1	mg/kg	< 0.1

Coffey Environments Pty Ltd Wollongong							
118 Auburn Street Wollongong NSW 2500	Client Sample ID	QA500	QA500	RPD	SPIKE	LCS	Method blank
	Lab Number	10-JN07082	10-JN07082	10-JN07082	10-JN07082	Batch	Batch
	QA Description		Duplicate	Duplicate % RPD	Spike % Recovery	% Recovery	
	Matrix	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date	Jun 11, 2010	Jun 11, 2010	Jun 11, 2010	Jun 11, 2010	Jun 11, 2010	Jun 11, 2010
Analysis Type	Units			% RPD	% Recovery	% Recovery	mg/kg
Total Recoverable Hydrocarbons		Batch	Batch	Batch	Batch		
TRH C6-C9 Fraction by GC		< 20	< 20	< 1	102	108	< 20
TRH C10-C14 Fraction by GC		< 50	< 50	< 1	81	81	< 50
TRH C15-C28 Fraction by GC		< 100	< 100	< 1	-	-	< 100
TRH C29-C36 Fraction by GC		< 100	< 100	< 1	-	-	< 100
Monocyclic Aromatic Hydrocarbons		Batch	Batch	Batch	Batch		
Benzene		< 0.05	< 0.05	< 1	99	109	< 0.05
Toluene		< 0.05	< 0.05	< 1	92	101	< 0.05
Ethylbenzene		< 0.05	< 0.05	< 1	104	110	< 0.05
Xylenes(ortho.meta and para)		< 0.05	< 0.05	< 1	106	109	< 0.05
Polycyclic Aromatic Hydrocarbons		Batch	Batch	Batch	Batch		
Acenaphthene		< 0.1	< 0.1	< 1	99	103	< 0.1
Acenaphthylene		< 0.1	< 0.1	< 1	86	85	< 0.1
Anthracene		< 0.1	< 0.1	< 1	87	86	< 0.1
Benz(a)anthracene		< 0.1	< 0.1	< 1	89	73	< 0.1
Benzo(a)pyrene		< 0.1	< 0.1	< 1	92	81	< 0.1
Benzo(b)fluoranthene		< 0.1	< 0.1	< 1	93	81	< 0.1
Benzo(g,h,i)perylene		< 0.1	< 0.1	< 1	98	100	< 0.1
Benzo(k)fluoranthene		< 0.1	< 0.1	< 1	99	91	< 0.1
Chrysene		< 0.1	< 0.1	< 1	95	82	< 0.1
Dibenz(a,h)anthracene		< 0.1	< 0.1	< 1	97	80	< 0.1
Fluoranthene		< 0.1	< 0.1	< 1	89	81	< 0.1
Fluorene		< 0.1	< 0.1	< 1	92	92	< 0.1
Indeno(1,2,3-cd)pyrene		< 0.1	< 0.1	< 1	110	103	< 0.1
Naphthalene		< 0.1	< 0.1	< 1	102	105	< 0.1
Phenanthrene		< 0.1	< 0.1	< 1	95	95	< 0.1
Pyrene		< 0.1	< 0.1	< 1	94	89	< 0.1
Organochlorine Pesticides		Batch	Batch	Batch	Batch		
4,4'-DDD		< 0.05	< 0.05	< 1	119	107	< 0.05

Coffey Environments Pty Ltd Wollongong
 118 Auburn Street
 Wollongong
 NSW 2500

Client Sample	QA500	QA500	RPD	SPIKE	LCS	Method blank
Lab Number	10-JN07082	10-JN07082	10-JN07082	10-JN07082	Batch	Batch
QA Description		Duplicate	Duplicate % RPD	Spike % Recovery	% Recovery	
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Sample Date	Jun 11, 2010	Jun 11, 2010	Jun 11, 2010	Jun 11, 2010	Jun 11, 2010	Jun 11, 2010
Analysis Type	Units		% RPD	% Recovery	% Recovery	mg/kg
Organochlorine Pesticides	Batch	Batch	Batch	Batch		
4.4'-DDE	< 0.05	< 0.05	< 1	104	106	< 0.05
4.4'-DDT	< 0.05	< 0.05	< 1	73	107	< 0.05
a-BHC	< 0.05	< 0.05	< 1	109	111	< 0.05
b-BHC	< 0.05	< 0.05	< 1	116	128	< 0.05
Chlordane	< 0.1	< 0.1	< 1	-	-	< 0.1
d-BHC	< 0.05	< 0.05	< 1	104	116	< 0.05
Endosulfan I	< 0.05	< 0.05	< 1	98	98	< 0.05
Endosulfan II	< 0.05	< 0.05	< 1	102	101	< 0.05
Endosulfan sulphate	< 0.05	< 0.05	< 1	93	106	< 0.05
Endrin	< 0.05	< 0.05	< 1	97	89	< 0.05
Endrin aldehyde	< 0.05	< 0.05	< 1	105	117	< 0.05
g-BHC (Lindane)	< 0.05	< 0.05	< 1	97	102	< 0.05
Heptachlor	< 0.05	< 0.05	< 1	89	100	< 0.05
Heptachlor epoxide	< 0.05	< 0.05	< 1	113	118	< 0.05
Hexachlorobenzene	< 0.05	< 0.05	< 1	98	104	< 0.05
Methoxychlor	< 0.05	< 0.05	< 1	72	115	< 0.05
Toxophene	< 0.1	< 0.1	< 1	-	-	< 0.1
Organophosphorous Pesticides	Batch	Batch	Batch	Batch		
Bolstar	< 0.2	< 0.2	< 1	-	-	< 0.2
Chlorpyrifos	< 0.2	< 0.2	< 1	-	96	< 0.2
Demeton-O	< 0.2	< 0.2	< 1	-	-	< 0.2
Diazinon	< 0.2	< 0.2	< 1	101	99	< 0.2
Dichlorvos	< 0.2	< 0.2	< 1	-	-	< 0.2
Disulfoton	< 0.2	< 0.2	< 1	-	-	< 0.2
Ethion	< 0.2	< 0.2	< 1	105	87	< 0.2
Ethoprop	< 0.2	< 0.2	< 1	-	-	< 0.2
Fenitrothion	< 0.2	< 0.2	< 1	114	84	< 0.2
Fensulfothion	< 0.5	< 0.5	< 1	-	-	< 0.2

COMMENTS:

Coffey Environments Pty Ltd Wollongong 118 Auburn Street Wollongong NSW 2500	Client Sample	QA500	QA500	RPD	SPIKE	LCS	Method blank
	Lab Number	10-JN07082	10-JN07082	10-JN07082	10-JN07082	Batch	Batch
	QA Description		Duplicate	Duplicate % RPD	Spike % Recovery	% Recovery	
	Matrix	Soil	Soil	Soil	Soil	Soil	Soil
	Sample Date	Jun 11, 2010	Jun 11, 2010	Jun 11, 2010	Jun 11, 2010	Jun 11, 2010	Jun 11, 2010
Analysis Type	Units			% RPD	% Recovery	% Recovery	mg/kg
Organophosphorous Pesticides	Batch	Batch	Batch	Batch	Batch		
Fenthion	< 0.2	< 0.2	< 1	-	89		< 0.2
Merphos	< 0.2	< 0.2	< 1	-	-		< 0.2
Methyl azinphos	< 0.2	< 0.2	< 1	-	-		< 0.2
Methyl parathion	< 0.2	< 0.2	< 1	96	76		< 0.2
Mevinphos	< 0.2	< 0.2	< 1	96	-		< 0.2
Naled	< 0.5	< 0.5	< 1	-	-		< 0.5
Phorate	< 0.2	< 0.2	< 1	-	-		< 0.2
Ronnel	< 0.2	< 0.2	< 1	-	-		< 0.2
Tokuthion	< 0.2	< 0.2	< 1	-	-		< 0.2
Trichloronate	< 0.2	< 0.2	< 1	-	-		< 0.2
Polychlorinated Biphenyls	Batch	Batch	Batch	Batch	Batch		
Aroclor-1016	< 0.1	< 0.1	< 1	-	-		< 0.1
Aroclor-1221	< 0.1	< 0.1	< 1	-	-		< 0.1
Aroclor-1232	< 0.1	< 0.1	< 1	-	-		< 0.1
Aroclor-1242	< 0.1	< 0.1	< 1	-	-		< 0.1
Aroclor-1248	< 0.1	< 0.1	< 1	-	-		< 0.1
Aroclor-1254	< 0.1	< 0.1	< 1	-	-		< 0.1
Aroclor-1260	< 0.1	< 0.1	< 1	82	115		< 0.1
Total PCB	< 0.5	< 0.5	< 1	82	115		< 0.5
Heavy Metals	Batch	Batch	Batch	Batch	Batch		
Arsenic	3.1	4.9	47	99	86		< 2
Cadmium	0.6	0.7	12	100	99		< 0.5
Chromium	< 5	< 5	56	109	107		< 5
Copper	130	150	12	125	105		< 5
Lead	28	39	33	92	100		< 5
Nickel	26	37	33	120	105		< 5
Zinc	10	8.2	29	103	96		< 5

COMMENTS:

Sample Receipt Advice

Company name: **Coffey Environments Pty Ltd Wollongong**

Contact name: **Colee Quayle**
Client job number: **ENVIWOLL00250AB**
COC number: **27650**
Turn around time: **5 Day**
Date received: **Jun 17, 2010**
MGT lab reference: **268016**

Sample information

- A detailed list of analytes logged into our LIMS, is included in the attached summary table.
- All samples have been received as described on the above COC.
- COC has been completed correctly.
- Attempt to chill was evident.
- Appropriately preserved sample containers have been used.
- All samples were received in good condition.
- Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- Organic samples had Teflon liners.
- Samples received with Zero Headspace.
- Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Contact notes

If you have any questions with respect to these samples please contact:

Onur Mehmet on Phone : (03) 9564 7055 or by e.mail: mehmeto@mgtenv.com.au

Results will be delivered electronically via e.mail to Colee Quayle - Colee_Quayle@coffey.com.

mgt Sample Receipt

Appendix G

Groundwater Laboratory Results

ANALYTICAL REPORT

13 July 2010

Coffey Environments Pty Ltd
118 Auburn Street
Wollongong
NSW 2500

Attention: Colee Quayle

Your Reference: EW250AB

Our Reference: SE79423-R

Samples: 12 Waters

Received: 28/6/10

Preliminary Report Sent: 7/07/10


These samples were analysed in accordance with your written instructions.

This report cancels and supersedes report No. SE79423 issued on 08/07/10 by SGS Environmental Services due to amendment of sample description.

For and on Behalf of:
SGS ENVIRONMENTAL SERVICES

Sample Receipt: Angela Mamalicos AU.SampleReceipt.Sydney@sgs.com
Production Manager: Huong Crawford Huong.Crawford@sgs.com

Results Approved and/or Authorised by:


Ly Kim Ha
Organics Signatory


Dong Liang
Quality Manager


Huong Crawford
Metals Signatory



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BTEX in Water (µg/L)						
Our Reference:	UNITS	SE79423-R -1	SE79423-R -2	SE79423-R -3	SE79423-R -4	SE79423-R -5
Your Reference	-----	MW1	MW2	MW3	MW4	MW5
Sample Matrix	-----	Water	Water	Water	Water	Water
Date Sampled		25/06/2010	25/06/2010	25/06/2010	25/06/2010	24/06/2010
Date Extracted (BTEX)		1/07/2010	1/07/2010	1/07/2010	1/07/2010	1/07/2010
Date Analysed (BTEX)		1/07/2010	1/07/2010	1/07/2010	1/07/2010	1/07/2010
Benzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	<1.5	<1.5	<1.5	<1.5	<1.5
Surrogate	%	65	66	63	62	62

BTEX in Water (µg/L)						
Our Reference:	UNITS	SE79423-R -6	SE79423-R -7	SE79423-R -8	SE79423-R -9	SE79423-R -10
Your Reference	-----	MW6	MW8	MW9	BH001	BH002
Sample Matrix	-----	Water	Water	Water	Water	Water
Date Sampled		24/06/2010	24/06/2010	24/06/2010	24/06/2010	25/06/2010
Date Extracted (BTEX)		1/07/2010	1/07/2010	1/07/2010	1/07/2010	1/07/2010
Date Analysed (BTEX)		1/07/2010	1/07/2010	1/07/2010	1/07/2010	1/07/2010
Benzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	µg/L	<0.5	<0.5	<0.5	<0.5	<0.5
Total Xylenes	µg/L	<1.5	<1.5	<1.5	<1.5	<1.5
Surrogate	%	93	99	61	65	62

BTEX in Water (µg/L)			
Our Reference:	UNITS	SE79423-R -11	SE79423-R -12
Your Reference	-----	Trip Spike	Trip Blank
Sample Matrix	-----	Water	Water
Date Sampled			
Date Extracted (BTEX)		1/07/2010	1/07/2010
Date Analysed (BTEX)		1/07/2010	1/07/2010
Benzene	µg/L	88%	<0.5
Toluene	µg/L	78%	<0.5
Ethylbenzene	µg/L	85%	<0.5
Total Xylenes	µg/L	87%	<1.5
Surrogate	%	108	67

TRH C6-C9 by P/T ONLY-in water Our Reference: Your Reference Sample Matrix Date Sampled	UNITS ----- -----	SE79423-R -12 Trip Blank Water
Date Extracted (TRH C6-C9 PT)		1/07/2010
Date Analysed (TRH C6-C9 PT)		1/07/2010
TRH C ₆ - C ₉ P&T in µg/L	µg/L	<40



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TRH in water with C6-C9 by P/T Our Reference:	UNITS	SE79423-R -1	SE79423-R -2	SE79423-R -3	SE79423-R -4	SE79423-R -5
Your Reference	-----	MW1	MW2	MW3	MW4	MW5
Sample Matrix	-----	Water	Water	Water	Water	Water
Date Sampled		25/06/2010	25/06/2010	25/06/2010	25/06/2010	24/06/2010
Date Extracted (TRH C6-C9 PT)		1/07/2010	1/07/2010	1/07/2010	1/07/2010	1/07/2010
Date Analysed (TRH C6-C9 PT)		1/07/2010	1/07/2010	1/07/2010	1/07/2010	1/07/2010
TRH C ₆ - C ₉ P&T in µg/L	µg/L	<40	<40	<40	<40	<40
Date Extracted (TRH C10-C36)		1/07/2010	1/07/2010	1/07/2010	1/07/2010	1/07/2010
Date Analysed (TRH C10-C36)		1/07/2010	1/07/2010	1/07/2010	1/07/2010	1/07/2010
TRH C ₁₀ - C ₁₄	µg/L	<100	<100	<100	<100	<100
TRH C ₁₅ - C ₂₈	µg/L	<200	<200	<200	<200	<200
TRH C ₂₉ - C ₃₆	µg/L	<200	<200	<200	<200	<200

TRH in water with C6-C9 by P/T Our Reference:	UNITS	SE79423-R -6	SE79423-R -7	SE79423-R -8	SE79423-R -9	SE79423-R -10
Your Reference	-----	MW6	MW8	MW9	BH001	BH002
Sample Matrix	-----	Water	Water	Water	Water	Water
Date Sampled		24/06/2010	24/06/2010	24/06/2010	24/06/2010	25/06/2010
Date Extracted (TRH C6-C9 PT)		1/07/2010	1/07/2010	1/07/2010	1/07/2010	1/07/2010
Date Analysed (TRH C6-C9 PT)		1/07/2010	1/07/2010	1/07/2010	1/07/2010	1/07/2010
TRH C ₆ - C ₉ P&T in µg/L	µg/L	<40	<40	<40	<40	<40
Date Extracted (TRH C10-C36)		1/07/2010	1/07/2010	1/07/2010	1/07/2010	1/07/2010
Date Analysed (TRH C10-C36)		1/07/2010	1/07/2010	1/07/2010	1/07/2010	1/07/2010
TRH C ₁₀ - C ₁₄	µg/L	<100	<100	<100	<100	<100
TRH C ₁₅ - C ₂₈	µg/L	<200	<200	<200	<200	<200
TRH C ₂₉ - C ₃₆	µg/L	<200	<200	<200	<200	<200



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PAHs-Ultra low level-ANZECC99% /ADWG Our Reference:	UNITS	SE79423-R -1	SE79423-R -2	SE79423-R -3	SE79423-R -4	SE79423-R -5
Your Reference	-----	MW1	MW2	MW3	MW4	MW5
Sample Matrix	-----	Water	Water	Water	Water	Water
Date Sampled		25/06/2010	25/06/2010	25/06/2010	25/06/2010	24/06/2010
Date Extracted		1/07/2010	1/07/2010	1/07/2010	1/07/2010	1/07/2010
Date Analysed		1/07/2010	1/07/2010	1/07/2010	1/07/2010	1/07/2010
Naphthalene	µg/L	<0.02	<0.02	0.02	<0.02	<0.02
2-Methylnaphthalene	µg/L	0.02	0.01	0.01	<0.01	<0.01
1-Methylnaphthalene	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Acenaphthene	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Fluorene	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Phenanthrene	µg/L	0.03	0.02	0.01	<0.01	<0.01
Anthracene	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Pyrene	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo[a]anthracene	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Chrysene	µg/L	0.01	<0.01	<0.01	<0.01	<0.01
Benzo[b,k]fluoranthene	µg/L	<0.02	<0.02	<0.02	<0.02	<0.02
Benzo[a]pyrene	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Indeno[123-cd]pyrene	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Dibenzo[ah]anthracene	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Benzo[ghi]perylene	µg/L	<0.01	<0.01	<0.01	<0.01	<0.01
Total PAHs (sum)	µg/L	0.2	0.2	0.2	0.2	0.2
<i>p</i> -Terphenyl- <i>d</i> 14	%	128	67	71	90	72
Nitrobenzene- <i>d</i> 5	%	115	71	62	67	77
2-Fluorobiphenyl	%	115	85	67	78	99



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PAHs-Ultra low level-ANZECC99% /ADWG Our Reference:	UNITS	SE79423-R -7	SE79423-R -8	SE79423-R -9	SE79423-R -10
Your Reference	-----	MW8	MW9	BH001	BH002
Sample Matrix	-----	Water	Water	Water	Water
Date Sampled		24/06/2010	24/06/2010	24/06/2010	25/06/2010
Date Extracted		1/07/2010	1/07/2010	1/07/2010	1/07/2010
Date Analysed		1/07/2010	1/07/2010	1/07/2010	1/07/2010
Naphthalene	µg/L	<0.02	<0.02	<0.02	<0.02
2-Methylnaphthalene	µg/L	<0.01	<0.01	<0.01	<0.01
1-Methylnaphthalene	µg/L	<0.01	<0.01	<0.01	<0.01
Acenaphthylene	µg/L	<0.01	<0.01	<0.01	<0.01
Acenaphthene	µg/L	<0.01	<0.01	<0.01	<0.01
Fluorene	µg/L	<0.01	<0.01	<0.01	<0.01
Phenanthrene	µg/L	<0.01	<0.01	<0.01	<0.01
Anthracene	µg/L	<0.01	<0.01	<0.01	<0.01
Fluoranthene	µg/L	<0.01	<0.01	<0.01	<0.01
Pyrene	µg/L	<0.01	<0.01	<0.01	<0.01
Benzo[a]anthracene	µg/L	<0.01	<0.01	<0.01	<0.01
Chrysene	µg/L	<0.01	<0.01	<0.01	<0.01
Benzo[b,k]fluoranthene	µg/L	<0.02	<0.02	<0.02	<0.02
Benzo[a]pyrene	µg/L	<0.01	<0.01	<0.01	<0.01
Indeno[123-cd]pyrene	µg/L	<0.01	<0.01	<0.01	<0.01
Dibenzo[ah]anthracene	µg/L	<0.01	<0.01	<0.01	<0.01
Benzo[ghi]perylene	µg/L	<0.01	<0.01	<0.01	<0.01
Total PAHs (sum)	µg/L	0.2	0.2	0.2	0.2
<i>p</i> -Terphenyl- <i>d</i> 14	%	75	72	76	82
Nitrobenzene- <i>d</i> 5	%	62	75	74	77
2-Fluorobiphenyl	%	81	82	78	88



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PAHs in Water Our Reference:	UNITS	SE79423-R -6
Your Reference	-----	MW6
Sample Matrix	-----	Water
Date Sampled		24/06/2010
Date Extracted		1/07/2010
Date Analysed		1/07/2010
Naphthalene	µg/L	<0.50
2-Methylnaphthalene	µg/L	<0.5
1-Methylnaphthalene	µg/L	<0.5
Acenaphthylene	µg/L	<0.50
Acenaphthene	µg/L	<0.50
Fluorene	µg/L	<0.50
Phenanthrene	µg/L	<0.50
Anthracene	µg/L	<0.50
Fluoranthene	µg/L	<0.50
Pyrene	µg/L	<0.50
Benzo[a]anthracene	µg/L	<0.50
Chrysene	µg/L	<0.50
Benzo[b,k]fluoranthene	µg/L	<1.0
Benzo[a]pyrene	µg/L	<0.50
Indeno[123-cd]pyrene	µg/L	<0.50
Dibenzo[ah]anthracene	µg/L	<0.50
Benzo[ghi]perylene	µg/L	<0.50
Total PAHs	µg/L	<9
Nitrobenzene-d5	%	97
2-Fluorobiphenyl	%	91
<i>p</i> -Terphenyl-d14	%	112



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OC Pesticides in Water Our Reference:	UNITS	SE79423-R -1	SE79423-R -2	SE79423-R -3	SE79423-R -4	SE79423-R -5
Your Reference	-----	MW1	MW2	MW3	MW4	MW5
Sample Matrix	-----	Water	Water	Water	Water	Water
Date Sampled		25/06/2010	25/06/2010	25/06/2010	25/06/2010	24/06/2010
Date Extracted		2/07/2010	2/07/2010	2/07/2010	2/07/2010	2/07/2010
Date Analysed		2/07/2010	2/07/2010	2/07/2010	2/07/2010	2/07/2010
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>alpha</i> -BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>gamma</i> -BHC(Lindane)	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>beta</i> -BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>delta</i> -BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>o,p</i> -DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>alpha</i> -Endosulfan	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>trans</i> -Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>cis</i> -Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>trans</i> -Nonachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>p,p</i> -DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>o,p</i> -DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>o,p</i> -DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>beta</i> -Endosulfan	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>p,p</i> -DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>p,p</i> -DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Ketone	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	95	85	86	91	94



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OC Pesticides in Water Our Reference:	UNITS	SE79423-R -6	SE79423-R -7	SE79423-R -8	SE79423-R -9	SE79423-R -10
Your Reference	-----	MW6	MW8	MW9	BH001	BH002
Sample Matrix	-----	Water	Water	Water	Water	Water
Date Sampled		24/06/2010	24/06/2010	24/06/2010	24/06/2010	25/06/2010
Date Extracted		2/07/2010	2/07/2010	2/07/2010	2/07/2010	2/07/2010
Date Analysed		2/07/2010	2/07/2010	2/07/2010	2/07/2010	2/07/2010
HCB	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>alpha</i> -BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>gamma</i> -BHC(Lindane)	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Aldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>beta</i> -BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>delta</i> -BHC	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Heptachlor Epoxide	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>o,p</i> -DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>alpha</i> -Endosulfan	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>trans</i> -Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>cis</i> -Chlordane	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>trans</i> -Nonachlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>p,p</i> -DDE	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Dieldrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>o,p</i> -DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>o,p</i> -DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>beta</i> -Endosulfan	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>p,p</i> -DDD	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
<i>p,p</i> -DDT	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endosulfan Sulphate	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Aldehyde	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Methoxychlor	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
Endrin Ketone	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2
2,4,5,6-Tetrachloro-m-xylene (<i>Surrogate</i>)	%	75	75	92	81	84



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PCBs in Water Our Reference:	UNITS	SE79423-R -1	SE79423-R -2	SE79423-R -3	SE79423-R -4	SE79423-R -5
Your Reference	-----	MW1	MW2	MW3	MW4	MW5
Sample Matrix	-----	Water	Water	Water	Water	Water
Date Sampled		25/06/2010	25/06/2010	25/06/2010	25/06/2010	24/06/2010
Date Extracted (PCB's)		2/07/2010	2/07/2010	2/07/2010	2/07/2010	2/07/2010
Date Analysed (PCB's)		2/07/2010	2/07/2010	2/07/2010	2/07/2010	2/07/2010
Arochlor 1016	µg/L	<10	<10	<10	<10	<10
Arochlor 1221	µg/L	<10	<10	<10	<10	<10
Arochlor 1232	µg/L	<10	<10	<10	<10	<10
Arochlor 1242	µg/L	<10	<10	<10	<10	<10
Arochlor 1248	µg/L	<10	<10	<10	<10	<10
Arochlor 1254	µg/L	<10	<10	<10	<10	<10
Arochlor 1260	µg/L	<10	<10	<10	<10	<10
Arochlor 1262	µg/L	<10	<10	<10	<10	<10
Arochlor 1268	µg/L	<10	<10	<10	<10	<10
Total Positive PCB	µg/L	<90	<90	<90	<90	<90
PCB_Surrogate 1	%	95	85	86	91	94

PCBs in Water Our Reference:	UNITS	SE79423-R -6	SE79423-R -7	SE79423-R -8	SE79423-R -9	SE79423-R -10
Your Reference	-----	MW6	MW8	MW9	BH001	BH002
Sample Matrix	-----	Water	Water	Water	Water	Water
Date Sampled		24/06/2010	24/06/2010	24/06/2010	24/06/2010	25/06/2010
Date Extracted (PCB's)		2/07/2010	2/07/2010	2/07/2010	2/07/2010	2/07/2010
Date Analysed (PCB's)		2/07/2010	2/07/2010	2/07/2010	2/07/2010	2/07/2010
Arochlor 1016	µg/L	<10	<10	<10	<10	<10
Arochlor 1221	µg/L	<10	<10	<10	<10	<10
Arochlor 1232	µg/L	<10	<10	<10	<10	<10
Arochlor 1242	µg/L	<10	<10	<10	<10	<10
Arochlor 1248	µg/L	<10	<10	<10	<10	<10
Arochlor 1254	µg/L	<10	<10	<10	<10	<10
Arochlor 1260	µg/L	<10	<10	<10	<10	<10
Arochlor 1262	µg/L	<10	<10	<10	<10	<10
Arochlor 1268	µg/L	<10	<10	<10	<10	<10
Total Positive PCB	µg/L	<90	<90	<90	<90	<90
PCB_Surrogate 1	%	75	75	92	81	84



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Inorganics Our Reference:	UNITS	SE79423-R -1	SE79423-R -2	SE79423-R -3	SE79423-R -4	SE79423-R -5
Your Reference	-----	MW1	MW2	MW3	MW4	MW5
Sample Matrix	-----	Water	Water	Water	Water	Water
Date Sampled		25/06/2010	25/06/2010	25/06/2010	25/06/2010	24/06/2010
Date Extracted (Ammonia)		2/07/2010	2/07/2010	2/07/2010	2/07/2010	2/07/2010
Date Analysed (Ammonia)		2/07/2010	2/07/2010	2/07/2010	2/07/2010	2/07/2010
Ammonia as N	mg/L	11	0.87	0.33	6.5	10

Inorganics Our Reference:	UNITS	SE79423-R -6	SE79423-R -7	SE79423-R -8	SE79423-R -9	SE79423-R -10
Your Reference	-----	MW6	MW8	MW9	BH001	BH002
Sample Matrix	-----	Water	Water	Water	Water	Water
Date Sampled		24/06/2010	24/06/2010	24/06/2010	24/06/2010	25/06/2010
Date Extracted (Ammonia)		2/07/2010	2/07/2010	2/07/2010	2/07/2010	2/07/2010
Date Analysed (Ammonia)		2/07/2010	2/07/2010	2/07/2010	2/07/2010	2/07/2010
Ammonia as N	mg/L	6.3	1.6	1.2	1.2	<0.01



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Trace HM (ICP-MS)-Dissolved Our Reference:	UNITS	SE79423-R -1	SE79423-R -2	SE79423-R -3	SE79423-R -4	SE79423-R -5
Your Reference	-----	MW1	MW2	MW3	MW4	MW5
Sample Matrix	-----	Water	Water	Water	Water	Water
Date Sampled		25/06/2010	25/06/2010	25/06/2010	25/06/2010	24/06/2010
Date Extracted (Metals-ICPMS)		7/07/2010	7/07/2010	7/07/2010	7/07/2010	7/07/2010
Date Analysed (Metals-ICPMS)		7/07/2010	7/07/2010	7/07/2010	7/07/2010	7/07/2010
Arsenic	µg/L	<10	<10	<10	<10	23
Cadmium	µg/L	<1	<1	<1	<1	<1
Chromium	µg/L	<10	<10	<10	<10	<10
Copper	µg/L	<10	<10	<10	<10	32
Lead	µg/L	<10	<10	<10	<10	<10
Nickel	µg/L	<10	<10	44	<10	13
Zinc	µg/L	94	63	130	110	100

Trace HM (ICP-MS)-Dissolved Our Reference:	UNITS	SE79423-R -6	SE79423-R -7	SE79423-R -8	SE79423-R -9	SE79423-R -10
Your Reference	-----	MW6	MW8	MW9	BH001	BH002
Sample Matrix	-----	Water	Water	Water	Water	Water
Date Sampled		24/06/2010	24/06/2010	24/06/2010	24/06/2010	25/06/2010
Date Extracted (Metals-ICPMS)		7/07/2010	7/07/2010	7/07/2010	7/07/2010	7/07/2010
Date Analysed (Metals-ICPMS)		7/07/2010	7/07/2010	7/07/2010	7/07/2010	7/07/2010
Arsenic	µg/L	190	73	17	17	<1
Cadmium	µg/L	<1	<1	<1	<1	<0.1
Chromium	µg/L	<10	<10	<10	<10	<1
Copper	µg/L	29	29	35	33	6
Lead	µg/L	<10	<10	21	15	<1
Nickel	µg/L	26	200	53	59	<1
Zinc	µg/L	140	130	170	160	77



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Mercury Cold Vapor/Hg Analyser Our Reference:	UNITS	SE79423-R -1	SE79423-R -2	SE79423-R -3	SE79423-R -4	SE79423-R -5
Your Reference	-----	MW1	MW2	MW3	MW4	MW5
Sample Matrix	-----	Water	Water	Water	Water	Water
Date Sampled		25/06/2010	25/06/2010	25/06/2010	25/06/2010	24/06/2010
Date Extracted (Mercury)		29/06/2010	29/06/2010	29/06/2010	29/06/2010	29/06/2010
Date Analysed (Mercury)		29/06/2010	29/06/2010	29/06/2010	29/06/2010	29/06/2010
Mercury (Dissolved)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

Mercury Cold Vapor/Hg Analyser Our Reference:	UNITS	SE79423-R -6	SE79423-R -7	SE79423-R -8	SE79423-R -9	SE79423-R -10
Your Reference	-----	MW6	MW8	MW9	BH001	BH002
Sample Matrix	-----	Water	Water	Water	Water	Water
Date Sampled		24/06/2010	24/06/2010	24/06/2010	24/06/2010	25/06/2010
Date Extracted (Mercury)		29/06/2010	29/06/2010	29/06/2010	29/06/2010	29/06/2010
Date Analysed (Mercury)		29/06/2010	29/06/2010	29/06/2010	29/06/2010	29/06/2010
Mercury (Dissolved)	mg/L	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001



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Method ID	Methodology Summary
SEO-018	BTEX / C6-C9 Hydrocarbons - Soil samples are extracted with methanol, purged and concentrated by a purge and trap apparatus, and then analysed using GC/MS technique. Water samples undergo the same analysis without the extraction step. Based on USEPA 5030B and 8260B.
SEO-020	Total Recoverable Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/FID. Where applicable Solid Phase Extraction Manifold technique is used for aliphatic / aromatic fractionation.
PEO-720	Semi-Volatile Organic Compounds (SVOCs) including OC, OP, PCB, Herbicides, PAH, Phthalates, and Speciated Phenols in soils, sediments and waters are determined by GCMS technique following appropriate solvent extraction process.
SEO-030	Polynuclear Aromatic Hydrocarbons - determined by solvent extraction with dichloromethane / acetone for soils and dichloromethane for waters, followed by instrumentation analysis using GC/MS SIM mode.
SEO-005	OC/OP/PCB - Determination of a suite of Organochlorine Pesticides, Chlorinated Organo-phosphorus Pesticides and Polychlorinated Biphenyls (PCB's) by liquid-liquid extraction using dichloromethane for waters, or mechanical extraction using acetone / hexane for soils, followed by instrumentation analysis using GC/ECD. Based on USEPA 8081/8082.
SEI-037	Ammonia - Determined by salicylate colourimetric method using Discrete Analyser.
AN318	Determination of elements at trace level in waters by ICP-MS technique, in accordance with USEPA 6020A.
SEM-005	Mercury - determined by Cold-Vapour AAS following appropriate sample preparation or digestion process. Based on APHA 21st Edition, 3112B.



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
BTEX in Water (µg/L)								
Date Extracted (BTEX)				01/07/10	[NT]	[NT]	LCS	01/07/10
Date Analysed (BTEX)				01/07/10	[NT]	[NT]	LCS	01/07/10
Benzene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	98%
Toluene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	101%
Ethylbenzene	µg/L	0.5	SEO-018	<0.5	[NT]	[NT]	LCS	100%
Total Xylenes	µg/L	1.5	SEO-018	<1.5	[NT]	[NT]	LCS	96%
Surrogate	%	0	SEO-018	75	[NT]	[NT]	LCS	71%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH C6-C9 by P/T ONLY-in water								
Date Extracted (TRH C6-C9 PT)				01/07/10	[NT]	[NT]	LCS	01/07/10
Date Analysed (TRH C6-C9 PT)				01/07/10	[NT]	[NT]	LCS	01/07/10
TRH C6 - C9 P&T in µg/L	µg/L	40	SEO-018	<40	[NT]	[NT]	LCS	98%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
TRH in water with C6-C9 by P/T								
Date Extracted (TRH C6-C9 PT)				01/07/10	SE79423-2	1/07/2010 1/07/2010	LCS	01/07/10
Date Analysed (TRH C6-C9 PT)				01/07/10	SE79423-2	1/07/2010 1/07/2010	LCS	01/07/10
TRH C6 - C9 P&T in µg/L	µg/L	40	SEO-018	<40	SE79423-2	<40 [N/T]	LCS	98%
Date Extracted (TRH C10-C36)				1/7/10	SE79423-2	1/07/2010 1/07/2010	LCS	1/7/10
Date Analysed (TRH C10-C36)				1/7/10	SE79423-2	1/07/2010 1/07/2010	LCS	1/7/10
TRH C10 - C14	µg/L	100	SEO-020	<100	SE79423-2	<100 <100	LCS	114%
TRH C15 - C28	µg/L	200	SEO-020	<200	SE79423-2	<200 <200	LCS	114%
TRH C29 - C36	µg/L	200	SEO-020	<200	SE79423-2	<200 <200	LCS	106%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PAHs-Ultra low level-ANZECC99% /ADWG								
Date Extracted				01/07/10	SE79423-10	1/07/2010 1/07/2010	LCS	01/07/10
Date Analysed				01/07/10	SE79423-10	1/07/2010 1/07/2010	LCS	01/07/10
Naphthalene	µg/L	0.02	PEO-720	<0.02	SE79423-10	<0.02 <0.02	LCS	72%
2-Methylnaphthalene	µg/L	0.01	PEO-720	<0.01	SE79423-10	<0.01 <0.01	[NR]	[NR]
1-Methylnaphthalene	µg/L	0.01	PEO-720	<0.01	SE79423-10	<0.01 <0.01	[NR]	[NR]
Acenaphthylene	µg/L	0.01	PEO-720	<0.01	SE79423-10	<0.01 <0.01	LCS	65%
Acenaphthene	µg/L	0.01	PEO-720	<0.01	SE79423-10	<0.01 <0.01	LCS	81%
Fluorene	µg/L	0.01	PEO-720	<0.01	SE79423-10	<0.01 <0.01	[NR]	[NR]
Phenanthrene	µg/L	0.01	PEO-720	<0.01	SE79423-10	<0.01 <0.01	LCS	94%
Anthracene	µg/L	0.01	PEO-720	<0.01	SE79423-10	<0.01 <0.01	LCS	64%
Fluoranthene	µg/L	0.01	PEO-720	<0.01	SE79423-10	<0.01 <0.01	LCS	96%
Pyrene	µg/L	0.01	PEO-720	<0.01	SE79423-10	<0.01 <0.01	LCS	88%
Benzo[a]anthracene	µg/L	0.01	PEO-720	<0.01	SE79423-10	<0.01 <0.01	[NR]	[NR]
Chrysene	µg/L	0.01	PEO-720	<0.01	SE79423-10	<0.01 <0.01	[NR]	[NR]
Benzo[b,k]fluoranthene	µg/L	0.02	PEO-720	<0.02	SE79423-10	<0.02 <0.02	[NR]	[NR]
Benzo[a]pyrene	µg/L	0.01	PEO-720	<0.01	SE79423-10	<0.01 <0.01	LCS	80%
Indeno[123-cd]pyrene	µg/L	0.01	PEO-720	<0.01	SE79423-10	<0.01 <0.01	[NR]	[NR]
Dibenzo[ah]anthracene	µg/L	0.01	PEO-720	<0.01	SE79423-10	<0.01 <0.01	[NR]	[NR]
Benzo[ghi]perylene	µg/L	0.01	PEO-720	<0.01	SE79423-10	<0.01 <0.01	[NR]	[NR]
Total PAHs (sum)	µg/L	0.19	PEO-720	<0.2	SE79423-10	0.2 0.2 RPD: 0	[NR]	[NR]
p -Terphenyl-d 14	%	0	PEO-720	72	SE79423-10	82 76 RPD: 8	LCS	72%
Nitrobenzene-d5	%	0	PEO-720	70	SE79423-10	77 76 RPD: 1	LCS	70%
2-Fluorobiphenyl	%	0	PEO-720	78	SE79423-10	88 84 RPD: 5	LCS	78%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PAHs in Water								
Date Extracted				01/07/10	[NT]	[NT]	LCS	01/07/10
Date Analysed				01/07/10	[NT]	[NT]	LCS	01/07/10
Naphthalene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	LCS	73%
2-Methylnaphthalene	µg/L	0.5	SEO-030	<0.5	[NT]	[NT]	[NR]	[NR]
1-Methylnaphthalene	µg/L	0.5	SEO-030	<0.5	[NT]	[NT]	[NR]	[NR]
Acenaphthylene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	LCS	90%
Acenaphthene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	LCS	100%
Fluorene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	[NR]	[NR]
Phenanthrene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	LCS	99%
Anthracene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	LCS	104%
Fluoranthene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	LCS	103%
Pyrene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	LCS	109%
Benzo[a]anthracene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	[NR]	[NR]
Chrysene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	[NR]	[NR]
Benzo[b,k]fluoranthene	µg/L	1	SEO-030	<1.0	[NT]	[NT]	[NR]	[NR]
Benzo[a]pyrene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	LCS	89%
Indeno[123-cd]pyrene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	[NR]	[NR]
Dibenzo[ah]anthracene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	[NR]	[NR]
Benzo[ghi]perylene	µg/L	0.5	SEO-030	<0.50	[NT]	[NT]	[NR]	[NR]
Total PAHs	µg/L	9	SEO-030	<9	[NT]	[NT]	[NR]	[NR]
Nitrobenzene-d5	%	0	SEO-030	113	[NT]	[NT]	LCS	109%
2-Fluorobiphenyl	%	0	SEO-030	97	[NT]	[NT]	LCS	97%
p -Terphenyl-d14	%	0	SEO-030	114	[NT]	[NT]	LCS	116%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
OC Pesticides in Water								
Date Extracted				2/07/20 10	SE79423-2	2/07/2010 2/07/2010	SE79423-5	2/07/2010
Date Analysed				2/07/20 10	SE79423-2	2/07/2010 2/07/2010	SE79423-5	2/07/2010
HCB	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
<i>alpha</i> -BHC	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
<i>gamma</i> -BHC(Lindane)	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
Heptachlor	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	SE79423-5	106%
Aldrin	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	SE79423-5	95%
<i>beta</i> -BHC	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
<i>delta</i> -BHC	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	SE79423-5	98%
Heptachlor Epoxide	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
<i>o,p</i> -DDE	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
<i>alpha</i> -Endosulfan	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
<i>trans</i> -Chlordane	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
<i>cis</i> -Chlordane	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
<i>trans</i> -Nonachlor	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
<i>p,p</i> -DDE	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
Dieldrin	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	SE79423-5	117%
Endrin	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	SE79423-5	120%
<i>o,p</i> -DDD	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
<i>o,p</i> -DDT	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
<i>beta</i> -Endosulfan	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
<i>p,p</i> -DDD	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
<i>p,p</i> -DDT	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	SE79423-5	125%
Endosulfan Sulphate	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
Endrin Aldehyde	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
Methoxychlor	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
Endrin Ketone	µg/L	0.2	SEO-005	<0.2	SE79423-2	<0.2 <0.2	[NR]	[NR]
2,4,5,6-Tetrachloro-m-xy lene (<i>Surrogate</i>)	%	0	SEO-005	105	SE79423-2	85 90 RPD: 6	SE79423-5	90%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
PCBs in Water								
Date Extracted (PCB's)				2/07/2010	SE79423-2	2/07/2010 2/07/2010	SE79423-8	2/07/2010
Date Analysed (PCB's)				2/07/2010	SE79423-2	2/07/2010 2/07/2010	SE79423-8	2/07/2010
Arochlor 1016	µg/L	10	SEO-005	<10	SE79423-2	<10 <10	[NR]	[NR]
Arochlor 1221	µg/L	10	SEO-005	<10	SE79423-2	<10 <10	[NR]	[NR]
Arochlor 1232	µg/L	10	SEO-005	<10	SE79423-2	<10 <10	[NR]	[NR]
Arochlor 1242	µg/L	10	SEO-005	<10	SE79423-2	<10 <10	[NR]	[NR]
Arochlor 1248	µg/L	10	SEO-005	<10	SE79423-2	<10 <10	[NR]	[NR]
Arochlor 1254	µg/L	10	SEO-005	<10	SE79423-2	<10 <10	[NR]	[NR]
Arochlor 1260	µg/L	10	SEO-005	<10	SE79423-2	<10 <10	SE79423-8	95%
Arochlor 1262	µg/L	10	SEO-005	<10	SE79423-2	<10 <10	[NR]	[NR]
Arochlor 1268	µg/L	10	SEO-005	<10	SE79423-2	<10 <10	[NR]	[NR]
Total Positive PCB	µg/L	90	SEO-005	<90	SE79423-2	<90 <90	[NR]	[NR]
PCB_Surrogate 1	%	0	SEO-005	105	SE79423-2	85 90 RPD: 6	SE79423-8	85%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Inorganics								
Ammonia as N	mg/L	0.01	SEI-037	<0.01	SE79423-1	11 11 RPD: 0	LCS	99%

QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Trace HM (ICP-MS)-Dissolved								
Date Extracted (Metals-ICPMS)				07/07/10	[NT]	[NT]	LCS	07/07/10
Date Analysed (Metals-ICPMS)				07/07/10	[NT]	[NT]	LCS	07/07/10
Arsenic	µg/L	1	AN318	<1	[NT]	[NT]	LCS	103%
Cadmium	µg/L	0.1	AN318	<0.1	[NT]	[NT]	LCS	97%
Chromium	µg/L	1	AN318	<1	[NT]	[NT]	LCS	102%
Copper	µg/L	1	AN318	<1	[NT]	[NT]	LCS	104%
Lead	µg/L	1	AN318	<1	[NT]	[NT]	LCS	102%
Nickel	µg/L	1	AN318	<1	[NT]	[NT]	LCS	102%
Zinc	µg/L	1	AN318	<1	[NT]	[NT]	LCS	110%



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QUALITY CONTROL	UNITS	LOR	METHOD	Blank	Duplicate Sm#	Duplicate Base + Duplicate + %RPD	Spike Sm#	Matrix Spike % Recovery Duplicate + %RPD
Mercury Cold Vapor/Hg Analyser								
Date Extracted (Mercury)				29/06/2010	[NT]	[NT]	LCS	29/06/2010
Date Analysed (Mercury)				29/06/2010	[NT]	[NT]	LCS	29/06/2010
Mercury (Dissolved)	mg/L	0.0001	SEM-005	<0.0001	[NT]	[NT]	LCS	100%

QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
BTEX in Water (µg/L)			
Date Extracted (BTEX)		SE79423-5	1/07/2010 1/07/2010
Date Analysed (BTEX)		SE79423-5	1/07/2010 1/07/2010
Benzene	µg/L	SE79423-5	<0.5 <0.5
Toluene	µg/L	SE79423-5	<0.5 <0.5
Ethylbenzene	µg/L	SE79423-5	<0.5 <0.5
Total Xylenes	µg/L	SE79423-5	<1.5 <1.5
Surrogate	%	SE79423-5	62 67 RPD: 8

QUALITY CONTROL	UNITS	Dup. Sm#	Duplicate Base + Duplicate + %RPD
TRH in water with C6-C9 by P/T			
Date Extracted (TRH C6-C9 PT)		SE79423-5	1/07/2010 1/07/2010
Date Analysed (TRH C6-C9 PT)		SE79423-5	1/07/2010 1/07/2010
TRH C6 - C9 P&T in µg/L	µg/L	SE79423-5	<40 <40
Date Extracted (TRH C10-C36)		SE79423-5	1/07/2010 1/07/2010
Date Analysed (TRH C10-C36)		SE79423-5	1/07/2010 1/07/2010
TRH C10 - C14	µg/L	SE79423-5	<100 [N/T]
TRH C15 - C28	µg/L	SE79423-5	<200 [N/T]
TRH C29 - C36	µg/L	SE79423-5	<200 [N/T]



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SGS Australia Pty Ltd
ABN 44 000 964 278

Page 20 of 21

Environmental Services Unit 16/33 Maddox Street Alexandria NSW 2015 Australia
t +61 (0)2 8594 0400 f + 61 (0)2 8594 0499 www.au.sgs.com

Result Codes

[INS] : Insufficient Sample for this test	[RPD] : Relative Percentage Difference
[NR] : Not Requested	* : Not part of NATA Accreditation
[NT] : Not tested	[N/A] : Not Applicable
[LOR] : Limit of reporting	

Report Comments

Trace metal: LORs were raised for some samples due to their high conductivity.
 Samples analysed as received. Solid samples expressed on a dry weight basis.
 Date Organics extraction commenced:

NATA Corporate Accreditation No. 2562, Site No 4354

Note: Test results are not corrected for recovery (excluding Air-toxics and Dioxins/Furans*)

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Quality Control Protocol

Method Blank: An analyte free matrix to which all reagents are added in the same volume or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. A method blank is prepared every 20 samples.

Duplicate: A separate portion of a sample being analysed that is treated the same as the other samples in the batch. One duplicate is processed at least every 10 samples.

Surrogate Spike: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are added to samples before extraction to monitor extraction efficiency and percent recovery in each sample.

Internal Standard: Added to all samples requiring analysis for organics (where relevant) or metals by ICP after the extraction/digestion process; the compounds/elements serve to give a standard of retention time and/or response, which is invariant from run-to-run with the instruments.

Laboratory Control Sample: A known matrix spiked with compound(s) representative of the target analytes. It is used to document laboratory performance. When the results of the matrix spike analysis indicates a potential problem due to the sample matrix itself, the LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

Matrix Spike: An aliquot of sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Quality Acceptance Criteria

The QC criteria are subject to internal review according to the SGS QAQC plan and may be provided on request or alternatively can be found here: <http://www.au.sgs.com/sgs-mp-au-env-qu-022-qa-qc-plan-en-09.pdf>



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Client Details

Requested By : **Colee Quayle**
 Client : Coffey Environments Pty Ltd
 Contact : Colee Quayle
 Address : 118 Auburn Street
 Wollongong NSW 2500

Email : Colee_Quayle@coffey.com
 Telephone : 02 4201 1400
 Facsimile : 02 4201 1401

Project : EW250AB
 Order Number : 28692
 Samples : 12 Waters

Laboratory Details

Laboratory : SGS Environmental Services
 Manager : Edward Ibrahim
 Address : Unit 16, 33 Maddox Street
 Alexandria NSW 2015

Email : au.samplereceipt.sydney@sgs.com
 Telephone : 61 2 8594 0400
 Facsimile : 61 2 8594 0499

Report No : **SE79423-R**
 No. of Samples : 12
 Due Date : 7/07/2010

Date Instructions Received : 28/06/2010
 Sample Receipt Date : 28/6/10

Samples received in good order : YES	Samples received in correct container: YES
Samples received without headspace: YES	Sufficient quantity supplied : YES
Upon receipt sample temperature : Cool	Cooling Method : Ice Pack
Sample containers provided by : SGS	Samples clearly Labelled : NO
Turnaround time requested : Standard	Completed documentation received : YES

Samples will be held for 1 month for water samples and 3 months for soil samples from date of receipt of samples, unless otherwise instructed.

Comments

This report cancels and supersedes report No. SE79423 issued on 08/07/10 by SGS Environmental Services due to amendment of sample description.

MW7 labelled as MW6. Metals = 8 Heavy Metals.

Trip spike to be analysed for BTEX and Trip Blank to be analysed for TRH (C6-C9) and BTEX.

To the extent not inconsistent with the other provisions of this document and unless specifically agreed otherwise in writing by SGS, all SGS services are rendered in accordance with the applicable SGS General Conditions of Service accessible at http://www.sgs.com/terms_and_conditions.htm as at the date of this document. Attention is drawn to the limitations of liability and to the clauses of indemnification.

The signed chain of custody will be returned to you with the original report.

SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
 Project : EW250AB

Report No : SE79423-R

Summary of Samples and Requested Analysis

The table below represents SGS Environmental Service's understanding and interpretation of the customer supplied sample request.

Please indicate ASAP if your request differs from these details.

Testing shall commence immediately as per this table, unless the customer intervenes with a correction prior to testing.

Note that a small X in the table below indicates some testing has not been requested in the package.

Sample No.	Description	Metals Prep, water 8HM (diss)	BTEX in Water (µg/L)	TRH C6-C9 by P/T ONLY in water	TRH in water with C6-C9 by P/T	PAHs-Ultra low -ANZECC99%/ADWG	PAHs in Water	OC Pesticides in Water	PCBs in Water	Inorganics	Trace HM (ICP-MS)-Dissolved	Mercury Cold Vapor/Hg Analyser
1	MW1	X	X		X	X		X	X	X	X	X
2	MW2	X	X		X	X		X	X	X	X	X
3	MW3	X	X		X	X		X	X	X	X	X
4	MW4	X	X		X	X		X	X	X	X	X
5	MW5	X	X		X	X		X	X	X	X	X
6	MW6	X	X		X		X	X	X	X	X	X
7	MW8	X	X		X	X		X	X	X	X	X
8	MW9	X	X		X	X		X	X	X	X	X
9	BH001	X	X		X	X		X	X	X	X	X
10	BH002	X	X		X	X		X	X	X	X	X
11	Trip Spike		X									
12	Trip Blank		X	X								



SAMPLE RECEIPT ADVICE (SRA) - continued

Client : Coffey Environments Pty Ltd
Project : EW250AB

Report No : SE79423-R

Sample No.	Description
1	MW1
2	MW2
3	MW3
4	MW4
5	MW5
6	MW6
7	MW8
8	MW9
9	BH001
10	BH002
11	Trip Spike
12	Trip Blank

AU.SampleReceipt.Sydney (Sydney)

From: Colee Quayle [Colee_Quayle@coffey.com]
Sent: Thursday, 1 July 2010 11:33 AM
To: Daniel Deen; AU.SampleReceipt.Sydney (Sydney)
Cc: Brady Hannett
Subject: RE: EW250AB, SGS SE79423

Please carry out standard PAH test thanks.

Regards

COLEE QUAYLE
Senior Environmental Scientist

Coffey Environments
118 Auburn Street Wollongong NSW 2500 Australia
T +61 2 4201 1400 F +61 2 4201 1401 M +61 403 242 431
coffey.com

From: Daniel Deen
Sent: Thursday, 1 July 2010 10:41 AM
To: Colee Quayle; AU.SampleReceipt.Sydney (Sydney)
Cc: Brady Hannett
Subject: RE: EW250AB, SGS SE79423
Importance: High

Colee – just confirming that due to water availability at MW6 only 1L of samples was collected and thus ultra-trace PAH could not be achieved.

Emily – Please continue with the TRH (C10-C36) and OCP/PCB analysis. Please hold off on the standard PAH analysis for MW6 until confirmed by Colee.

Kind regards

DANIEL DEEN
Environmental Scientist

Coffey Environments
118 Auburn Street Wollongong NSW 2500 Australia
T +61 2 4201 1400 F +61 2 4201 1401 M +61 407 243 663
coffey.com

From: AU.SampleReceipt.Sydney (Sydney) [mailto:AU.SampleReceipt.Sydney@sgs.com]
Sent: Thursday, 1 July 2010 10:25 AM
To: Colee Quayle; Brady Hannett
Cc: Daniel Deen
Subject: RE: EW250AB, SGS SE79423

Hello,

Only one 1L A/B received for PAH, TRH (C10-C36) and OCP/PCB for MW7 renamed MW6. Ultra Trace level cannot be performed for PAH. Only normal level can be performed on this sample. I apologise for not picking this up earlier.

Kind Regards

1/07/2010

Emily Yin
Environmental Services
Sample Administration Officer

Phone: +61 (0)2 8594 0400

From: Colee Quayle [mailto:Colee_Quayle@coffey.com]
Sent: Tuesday, 29 June 2010 5:00 PM
To: AU.SampleReceipt.Sydney (Sydney); Brady Hannett
Cc: Daniel Deen
Subject: RE: EW250AB, SGS SE79423
Importance: High

Hi Emily

Ammonia should also be analysed on samples MW1 to MW6, MW8, MW9, BH001, BH002. Also only test for BTEX not MAH and BTEX. Also the 8 metals are As, Cd, Cr, Cu, Ni, Pb, Zn, Hg

Thanks.

Regards

COLEE QUAYLE
Senior Environmental Scientist

Coffey Environments
118 Auburn Street Wollongong NSW 2500 Australia
T +61 2 4201 1400 F +61 2 4201 1401 M +61 403 242 431
coffey.com



From: AU.SampleReceipt.Sydney (Sydney) [mailto:AU.SampleReceipt.Sydney@sgs.com]
Sent: Tuesday, 29 June 2010 11:12 AM
To: Colee Quayle; Brady Hannett
Subject: FW: EW250AB, SGS SE79423

Dear Brady,

As per our conversation, MW7 is MW6. Metals = 8 Heavy Metals. Trip spike to be analysed for BTEX and Trip Blank to be analysed for TRH (C6-C9) and BTEX.

Kind Regards

Emily Yin
Environmental Services
Sample Administration Officer

Phone: +61 (0)2 8594 0400

From: AU.SampleReceipt.Sydney (Sydney)
Sent: Monday, 28 June 2010 5:19 PM
To: 'Colee_Quayle@coffey.com'

1/07/2010

Subject: FW: EW250AB, SGS SE79423

Sorry Colee.
Please specify metals required.

Kind Regards

Emily Yin
Environmental Services
Sample Administration Officer

Phone: +61 (0)2 8594 0400

From: AU.SampleReceipt.Sydney (Sydney)
Sent: Monday, 28 June 2010 5:09 PM
To: 'Colee_Quayle@coffey.com'; Brady Hannett
Subject: EW250AB, SGS SE79423

Dear Colee,

SGS has received these samples. MW7 received labelled as MW6.

Kind Regards

Emily Yin
Environmental Services
Sample Administration Officer

SGS Australia Pty Ltd
Unit 16, 33 Maddox St
Alexandria, NSW, 2015

Phone: +61 (0)2 8594 0400
Fax: +61 (0)2 8594 0499
E-mail: au.samplereceipt.sydney@sgs.com

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1/07/2010

Appendix H

Geotechnical Test Reports

**Geotechnical, Contamination and Groundwater Investigation,
Tallawarra Lands, Yallah, NSW**

Appendix H


Shrink / Swell Test Results

Shrink Swell Index Report

Client:	Coffey Environments Pty Ltd 118, Auburn street Wollongong NSW 2500
Principal:	TruEnergy
Project No.:	INFOKARI00148AA
Project Name:	ENVIWOLL00250AB
Lot No.:	TRN:

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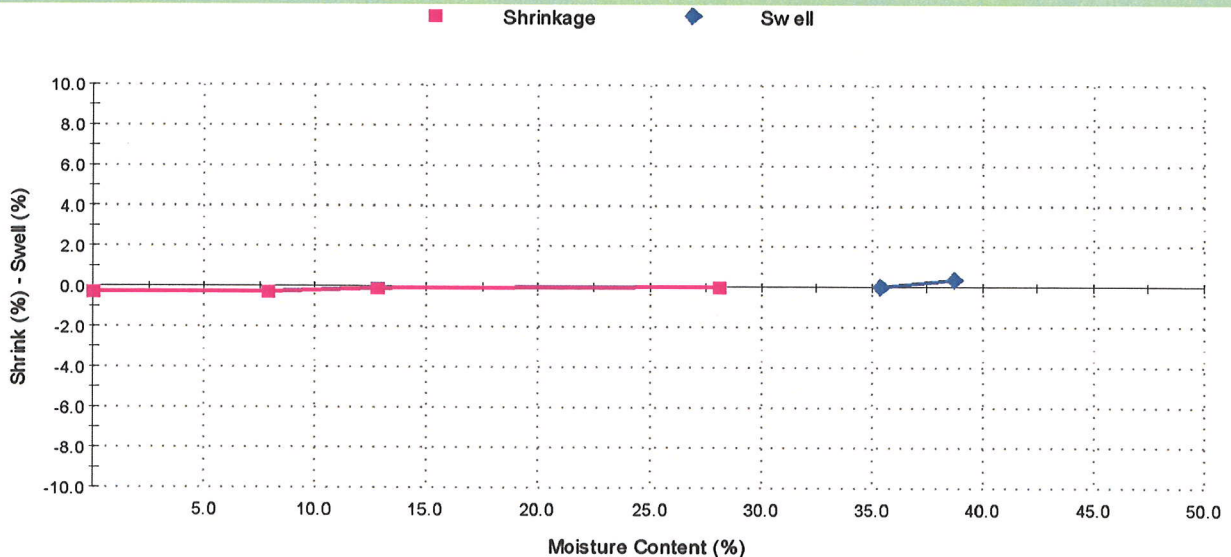
Approved Signatory: Lachlan Smith
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 20/03/2010

Sample Details

Sample ID:	KARI10S-00642	Sampling Method:	Submitted by client
Field ID:	CTP4	Material:	Gravelly CLAY, HP, brown, FICO gravel
Date Sampled:	10/02/2010	Source:	
Date Submitted:	10/03/2010	Specification:	
Project Location:	Tallawarra Lands, Yallah, NSW		
Sample Location:			
Borehole Number:	CTP4		
Borehole Depth (m):	0.3 - 0.5m		

Swell Test		AS 1289.7.1.1	Shrink Test		AS 1289.7.1.1
Swell on Saturation (%):	0.4		Shrinkage Moisture Content (%):	28.1	
Moisture Content before (%):	35.3		Shrink on drying (%):	0.3	
Moisture Content after (%):	38.7		Est. inert material (%):	<40	
Est. Unc. Comp. Strength before (kPa):	200		Crumbling during shrinkage:	Nil	
Est. Unc. Comp. Strength after (kPa):	160		Cracking during shrinkage:	Major Transverse	

Shrink Swell



Shrink Swell Index - Iss (%): 0.3

Comments

Shrink Swell Index Report

Client: Coffey Environments Pty Ltd
118, Auburn street
Wollongong NSW 2500

Principal: TruEnergy


Project No.: INFOKARI00148AA

Project Name: ENVIWOLL00250AB

Lot No.: **TRN:**

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L.S.G.

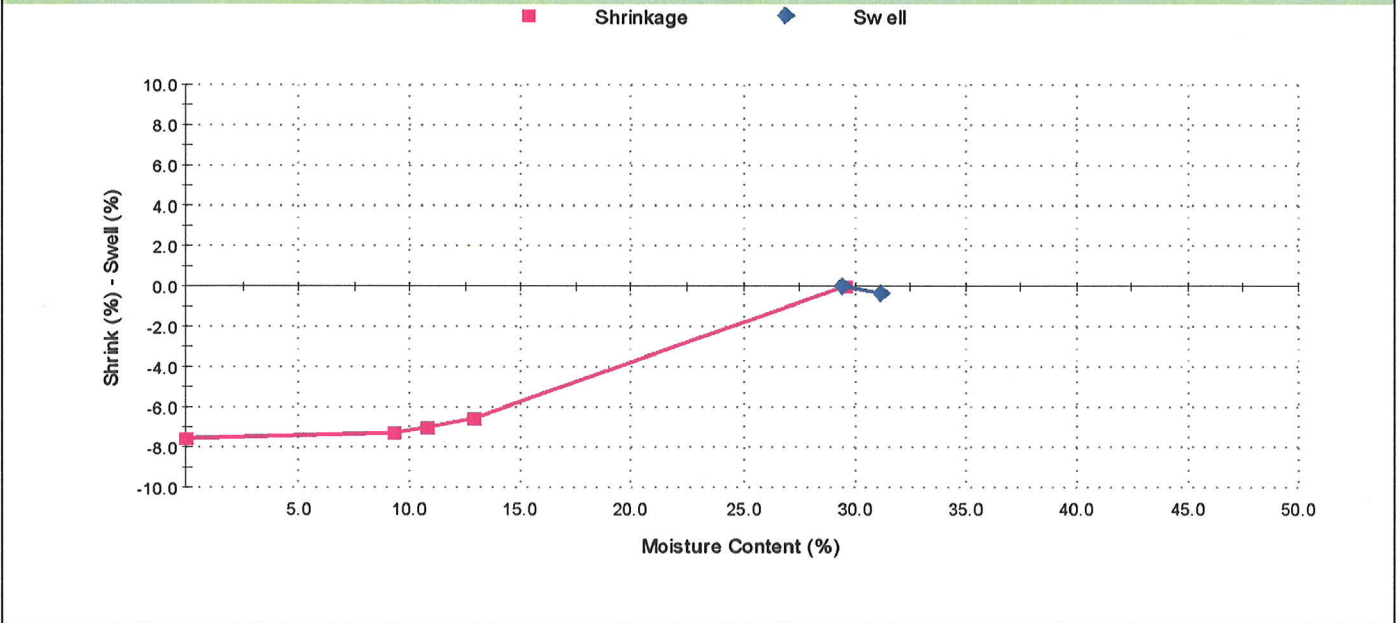
Approved Signatory: Lachlan Smith
(Senior Geotechnician)
NATA Accredited Laboratory Number:431
Date of Issue: 20/03/2010

Sample Details

Sample ID: KARI10S-00643	Sampling Method: Submitted by client
Field ID: CTP26	Material: CLAY, HP, brown
Date Sampled: 10/02/2010	Source:
Date Submitted: 10/03/2010	Specification:
Project Location: Tallawarra Lands, Yallah, NSW	
Sample Location:	
Borehole Number: CTP26	
Borehole Depth (m): 0.4 - 0.8m	

Swell Test AS 1289.7.1.1		Shrink Test AS 1289.7.1.1	
Swell on Saturation (%):	-0.3	Shrinkage Moisture Content (%):	29.6
Moisture Content before (%):	29.4	Shrink on drying (%):	7.5
Moisture Content after (%):	31.2	Est. inert material (%):	<10
Est. Unc. Comp. Strength before (kPa):	200.	Crumbling during shrinkage:	Nil
Est. Unc. Comp. Strength after (kPa):	180	Cracking during shrinkage:	Nil

Shrink Swell



Shrink Swell Index - Iss (%): 4.1

Comments

Shrink Swell Index Report

Client: Coffey Environments Pty Ltd
118, Auburn street
Wollongong NSW 2500

Principal: TruEnergy


Project No.: INFOKARI00148AA

Project Name: ENVIWOLL00250AB

Lot No.: **TRN:**

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L.S.G.

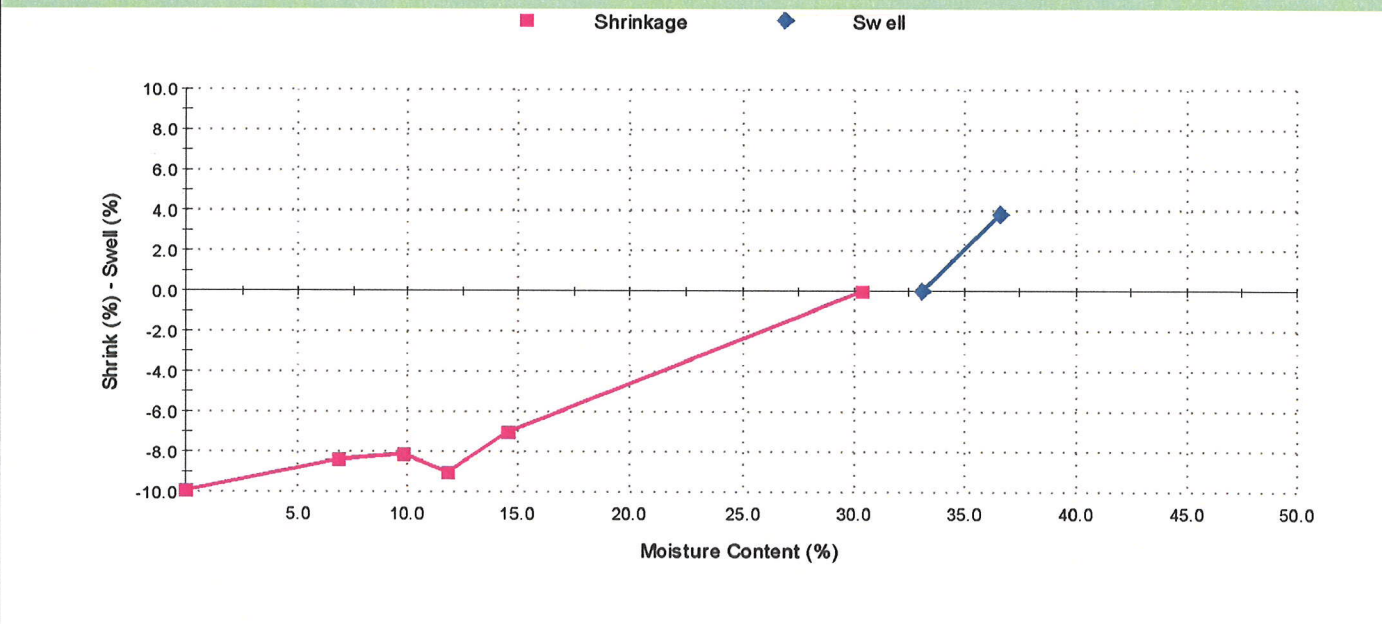
Approved Signatory: Lachlan Smith
(Senior Geotechnician)
NATA Accredited Laboratory Number: 431
Date of Issue: 20/03/2010

Sample Details

Sample ID: KARI10S-00644	Sampling Method: Submitted by client
Field ID: CTP33	Material: CLAY, HP, brown
Date Sampled: 10/02/2010	Source:
Date Submitted: 10/03/2010	Specification:
Project Location: Tallawarra Lands, Yallah, NSW	
Sample Location:	
Borehole Number: CTP33	
Borehole Depth (m): 0.3 - 0.7m	

Swell Test AS 1289.7.1.1		Shrink Test AS 1289.7.1.1	
Swell on Saturation (%):	3.8	Shrinkage Moisture Content (%):	30.4
Moisture Content before (%):	33.1	Shrink on drying (%):	9.9
Moisture Content after (%):	36.6	Est. inert material (%):	<5
Est. Unc. Comp. Strength before (kPa):	150	Crumbling during shrinkage:	Nil
Est. Unc. Comp. Strength after (kPa):	120	Cracking during shrinkage:	Minor Longitudinal

Shrink Swell



Shrink Swell Index - Iss (%): 6.6

Comments